UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Phase Data Catalogue for IASPEI Events

by

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Open-File Report 85-398
1985

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

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Abstract

This report provides a catalogue of relocated hypocenters and a listing of reported phase arrivals for a series of 51 events chosen for discussion during a special session on the Analysis of Selected Earthquakes which will be convened by the Commission on Practice at the 1985 IASPEI General Assembly in Tokyo. The basic data set was obtained from the phase data tapes of the International Seismological Centre and from the *Preliminary Determination of Epicenters Monthly Listing* data base of the U.S. Geological Survey, National Earthquake Information Center (NEIC). To this data set, additional data were added from several sources, and the events were relocated using the standard programs used by NEIC to produce the *Monthly Listings* and *Earthquake Data Report* (EDR). The results are presented in standard PDE and EDR format, along with station distribution maps for each of the events.

Introduction

The purpose of this report is to provide a catalogue of relocated hypocenters and a listing of reported phase arrivals for a series of events chosen for discussion during a special session on the Analysis of Selected Earthquakes which will be convened by the Commission on Practice at the 1985 IASPEI General Assembly in Tokyo. This report is intended to be a companion report to the Waveform Catalogue for IASPEI Events by M. D. Zirbes and B. J. Moon (U.S. Geological Survey Open-File Report 85-218).

The goal of this special session is to provide a focus on modern scientific practice in the areas of earthquake quantification, data exchange, digital seismology, and algorithms. Participants have agreed to analyze a selection of fifty-one recent well-recorded world-wide earthquakes representing a range of sizes, locations, focal depths, and source characteristics.

The Data Base

The basic data set was obtained from the phase data tapes of the International Seismological Centre (ISC) for events in 1980 through 1982 and from the *Preliminary Determination of Epicenters (PDE) Monthly Listing* data base of the U.S. Geological Survey, National Earthquake Information Center (NEIC) for events in 1983 and 1984. Data were extracted from these data bases using the retrieval program FARSE, written by G. J. Dunphy of NEIC.

To this data set additional readings were added from several sources. Hypocenter information and much local and regional phase data were supplied by personnel of the U.S. Geological Survey, National Center for Earthquake Research, in Menlo Park for the earthquakes in California and Alaska. Data for the Columbia Bay, Alaska earthquakes of July 12 and September 7, 1983, were supplied by C.D. Stephens; data for the Eureka, California earthquake of November 8, 1980 and the Coalinga, California earthquake of May 2, 1983, were supplied by J.P. Eaton; and data for the Mammoth Lakes, California earthquake of May 25, 1980, were supplied by R.S. Cockerham. Local phase data from the Adak Network were supplied by E.R. Engdahl, of NEIC, for the Andreanof Islands, Alaska earthquake of June 9, 1983. In addition to the contributions listed above, additional phase data were entered from selected network bulletins for many of the events, especially those occurring in 1983 and 1984 for which the ISC data tapes were not yet available. Finally, additional phase data were read by the author from the NEIC U.S. Telemetered Network for 31 of the events, including all the events within or near the United States. Table 1 presents a summary of the number of stations reported for each event as well as the number used in each hypocenter computation by the NEIC PDE *Monthly Listing*, the ISC *Bulletin* and this report.

While checking network bulletins for additional data, it was discovered that the Japan Meteorological Agency (JMA) had determined that the IASPEI event of January 1, 1984 was indeed two events located in nearly the same place about 4 seconds apart. The PDE *Monthly Listing* had reported only one event at this time in the area. The conclusion of the JMA that there were really two events was confirmed by checking the data of the

U.S. Telemetered Network for that time period. The main shock, which is really the event IASPEI intended to have on its list, has a magnitude of 6.6 m_b and is preceded by a foreshock of magnitude approximately 5.3 m_b. In this study, both events were recomputed and published as an aid to interpreting the main event, even though the foreshock is not really part of the IASPEI event list.

Recomputation

All events in the list were recomputed using the standard programs which are included in the NEIC Seismic Data Analysis System (SEDAS) for routine publication of NEIC's *Quick Epicenter Determinations* (QED), PDE, PDE *Monthly Listing* and *Earthquake Data Report* (EDR). Hypocentral parameters for seven of the events were constrained to solutions furnished by agencies who have regional networks and/or special crustal models for the areas in which those events occurred. The seven events were the California and the Columbia Bay, Alaska earthquakes furnished by Stephens, Eaton and Cockerham, as listed previously; the Hawaii earthquake of November 16, 1983 supplied by the staff of the U.S. Geological Survey, Hawaiian Volcano Observatory; and the New Brunswick Canada earthquake of January 9, 1982 which was constrained to a special solution prepared by James Dewey of NEIC.

The remaining forty-five events were recomputed using generally standard procedures followed by NEIC geophysicists for publication of the routine bulletins. The revised event list of the IASPEI events is presented in standard PDE format in Table 3 and a listing of all phase data is given in standard EDR format in Table 4. In addition, a listing of the hypocenters and associated phase data is available on magnetic tape and may be obtained by interested organizations upon request to the National Earthquake Information Center. Detailed descriptions of procedures and symbols used in routine listings of the PDE and EDR may be found in the January and July issues of the PDE *Monthly Listing*, and each issue of the EDR. For convenience, summaries of these explanations are included at the end of Tables 3 and 4.

In addition to the traditional PDE and EDR for these events, two special data presentations were prepared for this special study. Table 2 shows the size and orientation of the semi-major and semi-minor axes of the horizontal projection of the error ellipsoid and the marginal confidence interval for depth for each of the events. The values shown represent the 90-percent confidence levels for each parameter. As a visual aid to recognizing the station distribution pattern for each event, azimuthal equi-distant plots were made with vectors between the epicenter and each station associated to the event within 105 degrees of the epicenter. Stations used in the computation were plotted with a diamond symbol while stations associated but not used in the computation were designated by an "x". To show distribution near the hypocenter, a second plot was made for each event for stations within 10 degrees of the event. In cases where no stations were within 10 degrees of the hypocenter, the regional plot uses a sufficiently large radius to show at least the closest station. For comparison, these special plots have a dashed circle plotted at the normal 10-degree radius. These plots are presented in Figures 1 through 26.

TABLE 1

Number of Stations Used in Computation and Total Number Reported by PDE Monthly Listing, ISC Bulletin and This Publication

Event		PDE Monthly Used/Rep.	ISC Bulletin Reported *	Current List Used/Rep.
1980				
Jan 01	16:42:40	249/349	432	354/451
May 25	16:33:44	246/246 F	355	579/579 F
Jun 29	07:20:07	222/272	507	436/506
Jul 29	14:58:41	257/296	451	383/449
Oct 10	12:25:23	203/310	514	430/514
Oct 24	14:53:34	326/369	510	457/540
Nov 08	10:27:33	314/384	510	828/828 F
Nov 23	18:34:53	265/346	506	432/504
1981				
Jan 18	18:17:26	220/277	513	416/509
Jan 23	21:13:48	188/268	379	306/383
Jul 06	03:08:34	153/269	510	402/515
Oct 28	04:34:17	100/137	272	198/284
Nov 22	15:05:22	298/336	469	435/470
Nov 27	17:21:45	315/341	606	572/611
1982				
Jan 03	14:09:50	219/291	412	300/414
Jan 09	12:53:51	276/276 F	391	393/393 F
Aug 05	20:32:48	165/315	456	257/526
Sep 06	01:47:03	413/496	676	599/679
Dec 13	09:12:48	303/303 F	419	372/435
1983				
Feb 13	01:40:11	194/290	—	283/389
Apr 03	02:50:02	318/423	—	370/512
Apr 04	02:51:34	426/470	—	494/543
Apr 11	08:18:10	350/373	—	414/449
Apr 18	10:58:48	369/428	—	420/487
May 02	23:42:37	471/471 F	—	569/569 F
May 26	02:59:59	481/558	—	590/685
Jun 01	01:59:54	343/400	—	461/529
Jun 02	20:12:50	343/379	—	417/463
Jun 09	18:46:02	357/383	—	477/509
Jun 21	06:25:26	468/552	—	589/664
Jun 24	09:06:45	311/361	—	362/412
Jul 12	15:10:04	300/341	—	518/518 F
Aug 06	15:43:52	301/410	—	385/492
Aug 17	10:55:54	413/480	—	530/591
Sep 07	19:22:05	377/411	—	534/534 F
Sep 12	15:42:08	380/407	—	455/491
Oct 04	18:52:12	285/360	—	348/442
Oct 09	11:25:38	249/289	—	331/390
Oct 17	19:36:22	279/366	—	372/447
Oct 22	04:21:35	132/318	—	145/385
Oct 30	04:12:28	357/407	—	406/463
Nov 16	16:13:00	394/394 F	—	474/474 F
Nov 24	05:30:36	364/538	—	414/588
Nov 30	17:46:00	402/495	—	439/525
Dec 22	04:11:29	343/394	—	412/465
Dec 30	23:52:39	485/525	—	536/580
1984				
Jan 01	09:03:37	nr	—	346/367
Jan 01	09:03:41	412/561	—	432/456
Feb 07	21:33:20	318/454	—	376/548
Mar 05	03:33:50	489/549	—	600/693
Mar 19	20:28:38	427/504	—	486/575
Mar 24	09:43:59	400/527	—	518/658

Notes:

* Since ISC uses a weighting scheme for its solutions, the number of stations used has no meaning. ISC data for 1983 and 1984 were not yet available when this report was in preparation.

F Furnished solution

nr This foreshock was not reported on the PDE Monthly.

Results

The results of this data collection and recomputation effort are presented in Tables 2, 3 and 4 and Figures 1 through 26 on the following pages. However, a few additional remarks appear to be in order. First, it is interesting to note the rather dramatic differences in the station distribution patterns for different events, even though each is large and recorded throughout the world. Although this is not unexpected because of the uneven distribution of land masses on the earth's surface, this clearly demonstrates that it is dangerous to assume that large events in different parts of the world will be equally well located. Of course, this effect is even more pronounced for events of smaller magnitude.

Second, it should be noted that for two events in the list, a procedure was followed which departs from standard PDE and EDR operations. Normally, the depth of the Santa Cruz Islands earthquake of August 5, 1982 would have been restrained by the geophysicist to some depth such as 10 or 33 km, since the free depth was 5 +/- 23.5 km. For this paper, however, it was decided that the free depth was more useful for interpreting the event though it was obviously poorly constrained.

Finally, the Banda Sea earthquake of Nov 24, 1983 has an M_s magnitude listed despite the well-constrained depth of 199 km. Normally, M_s magnitudes are not listed for events whose depth (plus marginal confidence interval of depth, if applicable) is greater than 50 km. This was done to draw attention to a difficulty observed by NEIC geophysicists on many occasions—namely, that the magnitudes which are traditionally reported for large intermediate and deep earthquakes grossly underestimate the true size of the event. This problem arises because the traditional short-period m_b magnitude saturates at about magnitude 6.5 regardless of depth. It is also known that the uncorrected M_s magnitude underestimates the true size of intermediate and deep earthquakes, but as shown by the Banda Sea event, this underestimate is considerably less than the underestimate caused by reporting only the m_b magnitude. Therefore, until other magnitudes such as long-period m_b or moment magnitude are reported routinely, perhaps the uncorrected M_s magnitude is the best indicator available at the present time for the true size of large intermediate events, despite the limitations.

Acknowledgements

The author wishes to thank E.R. Engdahl, R.E. Needham and R.P. Buland for their many helpful suggestions with the analysis of the data and the preparation of the manuscript. The author also wishes to express thanks to the many scientists, technicians and communications personnel around the world who provided the basic seismogram interpretations without which this report, and indeed most studies of global seismology, would be impossible.

References

Zirbes, M.D. and B.J. Moon, *Waveform Catalogue for IASPEI Events*, U.S. Geological Survey, Open-File Report 85-218.

TABLE 2

Size and Orientation of Semi-Major and Semi-Minor Axes of Horizontal Projection of Error Ellipsoid and Marginal Confidence Interval of Depth for IASPEI Events

Event		Semi-Major Axis Az (deg)	Semi-Major Axis Size (km)	Semi-Minor Axis Az (deg)	Semi-Minor Axis Size (km)	Dep CI Size (km)
1980						
Jan 01	16:42:40	167.7	4.7	77.7	2.4	G
May 25	16:33:44	F		F		F
Jun 29	07:20:07	133.9	2.8	223.9	1.9	1.9
Jul 29	14:58:41	26.8	4.0	116.8	2.2	D
Oct 10	12:25:23	151.7	3.0	61.7	2.3	D
Oct 24	14:53:34	210.7	3.6	120.7	3.0	4.4
Nov 08	10:27:33	F		F		F
Nov 23	18:34:53	17.1	3.0	107.1	2.1	D
1981						
Jan 18	18:17:26	110.1	4.5	200.1	2.8	4.2
Jan 23	21:13:48	39.2	4.3	129.2	2.9	G
Jul 06	03:08:34	203.2	4.0	113.2	3.6	4.6
Oct 28	04:34:17	145.1	7.7	55.0	6.5	G
Nov 22	15:05:22	72.4	3.6	162.4	2.5	3.8
Nov 27	17:21:45	56.7	2.8	146.7	2.1	D
1982						
Jan 03	14:09:50	148.7	5.1	58.7	3.2	G
Jan 09	12:53:51	F		F		F
Aug 05	20:32:48	210.6	6.1	120.6	4.9	23.5
Sep 06	01:47:03	117.3	3.4	207.3	2.8	3.5
Dec 13	09:12:48	56.5	3.7	146.5	3.0	3.8
1983						
Feb 13	01:40:11	187.0	4.6	97.0	3.1	6.0
Apr 03	02:50:02	223.5	3.8	133.5	2.5	4.0
Apr 04	02:51:34	211.8	3.6	121.8	2.8	5.2
Apr 11	08:18:10	160.5	3.1	70.5	2.8	4.3
Apr 18	10:58:48	199.0	3.8	109.0	2.3	5.0
May 02	23:42:37	F		F		F
May 26	02:59:59	121.4	2.8	211.4	1.8	[illegible].1
Jun 01	01:59:54	162.4	3.9	72.4	2.9	D
Jun 02	20:12:50	68.0	4.2	158.0	2.8	D
Jun 09	18:46:02	170.7	4.0	80.7	2.1	4.4
Jun 21	06:25:26	105.9	2.4	15.9	1.7	G
Jun 24	09:06:45	216.3	3.2	126.3	2.8	3.5
Jul 12	15:10:04	F		F		F
Aug 06	15:43:52	21.8	3.2	111.8	2.0	G
Aug 17	10:55:54	144.5	3.6	54.5	2.5	8.3
Sep 07	19:22:05	F		F		F
Sep 12	15:42:08	19.1	3.1	109.1	2.0	D
Oct 04	18:52:12	74.6	5.3	164.6	3.7	3.6
Oct 09	11:25:38	77.6	5.0	167.6	3.3	4.0
Oct 17	19:36:22	167.8	4.4	77.8	2.3	D
Oct 22	04:21:35	29.2	8.5	119.2	5.9	D
Oct 30	04:12:28	188.0	3.1	98.0	1.9	3.6
Nov 16	16:13:00	F		F		F
Nov 24	05:30:36	66.1	4.5	156.1	3.5	D
Nov 30	17:46:00	19.9	4.4	109.9	3.3	G
Dec 22	04:11:29	142.1	3.8	52.1	2.6	4.6
Dec 30	23:52:39	190.0	3.3	100.0	1.8	2.6
1984						
Jan 01	09:03:37	141.4	3.9	51.4	2.4	1.5
Jan 01	09:03:41	146.5	3.1	56.5	2.2	0.9
Feb 07	21:33:20	37.3	4.8	127.3	3.8	D
Mar 05	03:33:50	76.6	2.6	166.6	2.2	0.9
Mar 19	20:28:38	10.1	3.2	100.1	1.6	D
Mar 24	09:43:59	134.6	3.5	224.6	2.3	3.9

Notes:
F - Furnished solution
D - Depth restrained by depth phases (pP)
G - Depth restrained by geophysicist

TABLE 3
PRELIMINARY DETERMINATION OF EPICENTERS

DAY	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 1980									
01	16 42 40.0	38.790 N	27.785 W	10 G	6.0	6.8	1.2	354	AZORES ISLANDS. At least 56 people killed, 400 or more injured and extensive damage (VIII) on Terceira. At least 4 people killed, some injured and extensive damage on San Jorge. Damage also reported on Graciosa.
MAY 1980									
25	16 33 44.1&	37.598 N	118.829 W	8 G	6.2	6.2		579	CALIFORNIA-NEVADA BORDER REGION. <GS>. Seven people injured, damage (VII) and rockslides in the Mammoth Lakes-Crowley Lake area, California. Rockslides also occurred in Yosemite National Park. Total damage estimated at 2 million dollars. Surface faulting and ground cracks observed in the epicentral area. Felt in an area of approximately 272,000 sq. km. of California and Nevada.
JUN 1980									
29	07 20 07.0	34.825 N	139.268 E	26	5.8	6.2	1.2	436	NEAR S. COAST OF HONSHU, JAPAN. Eight people injured and considerable damage (V JMA) and landslides on the Izu Peninsula and on Oshima. Felt (IV JMA) at Kumagaya, Mishima, Tateyama, Tokyo and Yokohama; (III JMA) at Chichibu, Choshi, Irozaki, Kawaguchi-ko, Kofu and Utsunomiya; (II JMA) at Gifu, Kakioka, Karuizawa, Maebashi, Matsumoto, Mito, Nagoya, Onahama, Shizuoka and on Hachijo-jima. Local tsunami generated in Sagami Bay. Maximum wave height (peak-to-trough) was 57 cm. at Okada.
JUL 1980									
29	14 58 41.0	29.656 N	81.108 E	19 D	6.1	6.6	1.0	383	NEPAL. One hundred fifty to 200 people killed, many injured and extensive damage in western Nepal. At least 13 killed, 40 injured and damage in the Pithoragarh area, India. Felt strongly at Kathmandu, Nepal and in the Delhi area, India.
OCT 1980									
10	12 25 23.8	36.213 N	1.395 E	11 D	6.3	7.2	1.2	430	ALGERIA. At least 5000 people killed, 9000 injured and extensive damage in the El Asnam area. Felt throughout northwestern Algeria and in southeastern Spain. Approximately 42 km. of surface rupture observed.
24	14 53 34.6	18.225 N	98.195 W	67	6.5	6.9	1.1	457	CENTRAL MEXICO. At least 300 people reported killed, many injured, approximately 150,000 homeless and extensive damage (IX) in central Mexico, mainly in the Huajuapan de Leon area. Felt throughout central and southern Mexico and in Guatemala.
NOV 1980									
08	10 27 33.0&	41.088 N	124.643 W	13 G	6.2	7.3		828	NEAR COAST OF NORTHERN CALIF. <GS>. Six people injured and damage (VII) in the Fields Landing area. One person injured at Fortuna. Slight damage (VI) at many communities along the coast from Rio Dell, California to Brookings, Oregon. Total damage estimated at 1.75 million dollars. Small landslides and liquefaction occurred along the Eel River and the Big Lagoon sand spit. Felt in an area of approximately 97,000 sq. km. from northern Oregon to the San Francisco Bay area, as well as in parts of western Nevada.
23	18 34 53.2	40.884 N	15.325 E	8 D	6.1	6.8	1.4	432	SOUTHERN ITALY. Over 3000 people killed, about 1900 missing, 7750 injured, 250,000 homeless and extensive damage.
JAN 1981									
18	18 17 26.0	38.649 N	142.836 E	48	6.2	7.0	1.2	416	NEAR EAST COAST OF HONSHU, JAPAN. Felt (IV JMA) at Miyako, Sendai and Morioka; (III JMA) at Ofunato, Ishinomaki, Fukushima, Hachinohe, Onahama, Akita, Shirakawa, Sakata and Utsunomiya; (II JMA) at Urakawa, Maebashi, Tokyo, Tateyama, Yokohama and Kofu. Local tsunami generated with maximum wave heights (peak to trough) 20 cm. at Urakawa and Ofunato, 15 cm. at Aikawa, 14 cm. at Hachinohe, 13 cm. at Hiroo and 12 cm. at Miyako and Ofunato.
23	21 13 48.1	30.967 N	101.134 E	10 G	5.8	6.8	1.2	306	SICHUAN PROVINCE, CHINA. About 150 people killed, 300 injured and extensive damage in the Dawu area.
JUL 1981									
06	03 08 34.9	22.333 S	171.670 E	123	6.5		1.1	402	LOYALTY ISLANDS REGION. Felt (IV) at Noumea and (II) at Koumac, New Caledonia. Probable multiple event. Strong phase observed on many stations about 11 seconds after P.
OCT 1981									
28	04 34 17.0	31.363 S	110.694 W	10 G	6.1	6.3	1.3	198	EASTER ISLAND REGION
NOV 1981									
22	15 05 22.2	18.750 N	120.829 E	36	6.3	6.5	1.1	435	LUZON, PHILIPPINE ISLANDS. Damage in the Bacarra-Laoag area. Felt throughout western Luzon.
27	17 21 45.3	42.877 N	131.247 E	544 D	5.8		1.2	572	E. USSR-N.E. CHINA BORDER REG.
JAN 1982									
03	14 09 50.5	0.945 S	21.877 W	10 G	5.8	6.5	1.0	300	CENTRAL MID-ATLANTIC RIDGE
09	12 53 51.8&	46.984 N	66.656 W	10 G	5.8	5.4		393	NEW BRUNSWICK. <SPEC>. Slight damage (VI) in parts of New Brunswick and at Bridgewater, Caribou, Easton,

TABLE 3-2

											Haynesville, Monticello, Presque Isle, Oakfield and Stockholm, Maine. Felt in the Maritime Provinces, parts of Quebec and throughout much of New England.
AUG 1982											
05	20 32 48.9	12.573 S	165.968 E	5		6.0 7.1		1.4	257		SANTA CRUZ ISLANDS
SEP 1982											
06	01 47 03.8	29.414 N	140.397 E	185		6.5		1.3	599		SOUTH OF HONSHU, JAPAN. Felt (III JMA) at Tateyama and Fukushima. Felt (II JMA) on Chichi-jima, Hachijo-jima and Oshima and at Yokohama, Choshi, Tokyo, Kumagaya, Mito, Utsunomiya, Onahama, Kokioka, Sendai, Morioka, Miyako and Ofunato.
DEC 1982											
13	09 12 48.5	14.787 N	44.278 E	3		6.0 5.9		1.2	372		WESTERN ARABIAN PENINSULA. Unconfirmed reports of 2800 people killed, 1500 injured, 700,000 homeless and about 300 villages destroyed or badly damaged in Yemen. Maximum intensity VIII in the Dawran-Risabah area. Felt throughout Yemen and in the Najran area, Saudi Arabia. Landslides occurred in the epicentral area, as well as extensional ground cracks trending north-northwest in zones up to 15 km. in length. This is the first instrumentally located hypocenter in the Dhamar region of Yemen.
FEB 1983											
13	01 40 11.9	39.994 N	75.210 E	20		5.7 6.3		1.4	283		SOUTHERN XINJIANG, CHINA. Several people injured and moderate damage in the Wuqia area. Felt (IV) in the Andizhan-Naryn area, USSR. Felt also (III) at Frunze and (II) at Tashkent, USSR.
APR 1983											
03	02 50 02.0	8.699 N	83.148 W	46		6.4 7.3		1.0	370		COSTA RICA. Five people died from heart attacks, one person killed by a collapsing house, and several people injured in southeastern Costa Rica. Also felt strongly in southwestern Panama.
04	02 51 34.3	5.739 N	94.740 E	78		6.7		1.1	494		NORTHERN SUMATERA. About 100 people injured and damage in the Banda Aceh area. Felt at Pinang, Malaysia.
11	08 18 10.1	10.426 N	62.775 W	40		6.1 5.9		1.1	414		NEAR COAST OF VENEZUELA. Felt (V) on Trinidad. Felt in the northeastern Venezuela states of Sucre, Monagas, Anzoategui and Bolivar. Also felt in the eastern suburbs of Caracas.
18	10 58 48.4	27.748 N	62.051 E	40		6.6 6.4		1.1	420		SOUTHERN IRAN. Felt strongly in southeastern Iran. Also felt at Karachi, Pakistan.
MAY 1983											
02	23 42 37.7&	36.219 N	120.317 W	10 G		6.3 6.5			569		CENTRAL CALIFORNIA. <GS>. Forty-five people injured and estimated 31 million dollars damage in the Coalinga area. Maximum intensity VIII. Some damage at Avenal and other surrounding communities. Felt from Los Angeles to Sacramento and from San Francisco to Reno.
26	02 59 59.4	40.465 N	139.133 E	23		6.8 7.8		1.2	598		NEAR WEST COAST OF HONSHU, JAPAN. One hundred four people killed, 163 injured and extensive damage to dwellings, roads and vessels caused by earthquake and a tsunami along the Japan Sea coast from southern Hokkaido to the Niigata area, Honshu. Many of the casualties and much of the damage occurred on the Ogo Peninsula. Tsunami damage occurred as far away as Yamaguchi Prefecture in southwestern Honshu, along the Japan Sea coast of USSR, and along the eastern and southern coasts of South Korea, where 3 additional people were killed. Felt (V JMA) at Akita, Fukaura and Mutsu. Felt on Hokkaido and throughout northern and central Honshu. Estimated tsunami heights were 14 m. at Minehama, Honshu, 2-6 m. along southern Hokkaido and northern Honshu, up to 8 m. along the coast of USSR, and 4 m. along the coast of South Korea.
JUN 1983											
01	01 59 54.6	17.035 S	174.601 W	180 D		6.3		0.9	461		TONGA ISLANDS. Felt (II) at Apia, Samoa Islands.
02	20 12 50.2	9.501 S	71.219 W	593 D		5.9		1.0	417		PERU-BRAZIL BORDER REGION
09	18 46 02.9	51.441 N	174.120 W	34		6.2 6.0		1.0	477		ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
21	06 25 26.4	41.339 N	139.085 E	5 G		6.7 7.0		1.2	589		HOKKAIDO, JAPAN REGION. Some damage in northern Honshu. Felt (IV JMA) at Aomori, Mori, Fukaura and Esashi; (III JMA) at Hakodate, Akita, Muroran, Hachinohe, Morioka and Mutsu; (II JMA) at Suttsu, Kutchan, Otaru, Miyako, Urakawa, Sakata, Onahama and Tomakomai. One meter tsunami at Akita, Noshiro and Wakami. Fifty cm. tsunami reported in many areas along the west coast of northern Honshu.
24	09 06 45.4	24.205 N	122.446 E	42		6.2 6.7		1.1	362		TAIWAN REGION. Felt on Taiwan. Felt (III JMA) on Iriomote-jima and (II JMA) on Ishigaki-shima and Yonaguni-jima, Ryukyu Islands.
JUL 1983											
12	15 10 04.3&	61.028 N	147.147 W	18 G		6.3 6.4			518		SOUTHERN ALASKA. <AGS>. Damage (VI) at Valdez. Felt (V) at Chitina, Chugiak, Cooper Landing, Copper Center, Cordova, Fort Richardson, Gakona, Girdwood, Moose Pass, Skwentna, Sutton, Whittier and Willow. Felt (IV) at Anchorage, Palmer and Seward. Felt (III) at Fairbanks and Yakutat. Also felt (III) at Whitehorse, Yukon Territory.
AUG 1983											
06	15 43 52.5	40.130 N	24.721 E	10 G		6.2 7.0		1.3	385		AEGEAN SEA. Slight damage (VI) on Limnos and to four monasteries in the Mount Athos area. Also felt (VI) on Thasos and Lesvos. Felt (V) throughout much of northern Greece. Felt strongly in southern Bulgaria and northwestern Turkey.
17	10 55 54.5	55.851 N	161.297 E	66		6.6 6.8		1.2	530		NEAR EAST COAST OF KAMCHATKA. Felt (IV-V) at Petropavlovsk-Kamchatskiy.

TABLE 3-3

SEP 1983													
07	19	22	05.0&	60.978 N	147.315 W	30 G	6.3	6.2			534	SOUTHERN ALASKA. <AGS>. Slight damage (VI) at Valdez. Felt (V) at Anchorage, Chugiak, Copper Center, Cooper Landing, Homer, Moose Pass, Palmer, Soldotna, Sutton, Wasilla and Willow.
12	15	42	08.5	36.536 N	71.122 E	209 D	6.3		1.0		455	AFGHANISTAN-USSR BORDER REGION. Slight damage in the Kashmir Valley. Felt (V) at Khorog, Pyandzh, Shaartuz, Dusti and Gissar; (IV-V) at Kulyab, Nurek, Dushanbe, Ordzhonikidzeabad, Tashkent, Garm, Ura-Tyube, Pendzhikent and Leninabad; (IV) at Ishkashim, Rushan, Kalininabad, Kurgan-Tyube, Samarkand and Andizhan; (III-IV) at Obigarm and Chimkent; (III) at Dzhirgatal and Naryn; (II-III) at Dzhambul and Talgar; and (II) at Frunze, USSR. Also felt in the Peshawar-Lahore area, Pakistan.
OCT 1983													
04	18	52	12.1	26.523 S	70.571 W	9	6.3	7.3	1.1		348	NEAR COAST OF NORTHERN CHILE. At least 5 people killed, 24 injured and extensive damage (VIII) in the Copiapo-Chanaral area. A 1.5 meter uplift near Chanaral was reported and some roads were blocked by landslides. Minor tsunami recorded at Valparaiso. Felt in Chile from Iquique to Santiago. Felt in Argentina and at La Paz, Bolivia and Sao Paulo, Brazil. This appears to be a multiple event.
09	11	25	38.8	26.141 S	70.521 W	7	5.9	6.3	1.1		331	NEAR COAST OF NORTHERN CHILE. Felt (V) at Copiapo, (IV) at Chanaral and (III) in the Antofagasta area.
17	19	36	22.4	37.602 N	17.502 W	16 D	6.1	6.4	1.1		372	NORTH ATLANTIC OCEAN
22	04	21	35.0	60.663 S	25.467 W	24 D	6.5	6.8	1.3		145	SOUTH SANDWICH ISLANDS REGION
30	04	12	28.5	40.337 N	42.164 E	21	6.1	6.9	1.2		486	TURKEY. At least 1342 people killed, 534 seriously injured, more than 25,000 homeless and 50 villages completely destroyed in Kars and Erzurum Provinces.
NOV 1983													
16	16	13	00.0&	19.430 N	155.454 W	12 G	6.4	6.7			474	HAWAII. <HVO-P>. Six people injured and considerable damage (VIII) in parts of Kapapala, Hawaii Volcanoes National Park, Volcano, Kau and Puna districts and Hilo. Landslides and rockfalls occurred, telephone and electrical service disrupted and water mains broken in several areas of the island. Total damage estimated at 6 to 6.5 million dollars. Also felt on Maui, Oahu and Kauai.
24	05	30	36.4	7.444 S	128.137 E	199 D	6.5	7.0	1.2		414	BANDA SEA. Felt on Alor, Flores, Sumba and Timor. Also felt in Australia from Darwin to Perth. Note the large Ms magnitude for this event, despite the well-constrained depth of 199 km.
30	17	46	00.7	6.821 S	72.107 E	10 G	6.7	7.5	1.2		439	CHAGOS ARCHIPELAGO REGION. Some damage (VI) to buildings and piers on Diego Garcia. Five foot rise in wave height in the lagoon and significant wave damage near the southeastern tip of the island. Forty cm. tsunami at Victoria, Seychelles. Large zone of discolored sea water observed 35 to 40 nautical miles northwest of Diego Garcia.
DEC 1983													
22	04	11	29.0	11.862 N	13.537 W	10	6.4	6.3	1.0		412	NORTHWEST AFRICA. At least 443 people killed, 200 reported missing, 150 seriously injured and extensive damage in the Gaoul-Koumbia area, Guinea. Felt in Guinea-Bissau, Senegal, The Gambia and Sierra Leone.
30	23	52	39.1	36.397 N	70.752 E	207	6.7		1.1		536	HINDU KUSH REGION. Twelve people killed, 483 injured and extensive damage in the Kabul and Samangan areas, Afghanistan. Fourteen people killed, hundreds injured and moderate damage in the Peshawar area, Pakistan. Some damage (VII) in Tajikistan, USSR. Felt in much of northwestern Afghanistan, northern Pakistan, northern India and in Tajikistan, Uzbekistan and Kirghizia, USSR.
JAN 1984													
01	09	03	37.4	33.697 N	136.243 E	380	5.3		1.2		346	NEAR S. COAST OF SOUTHERN HONSHU. Foreshock. This event was not included on the original IASPEI list, but is listed here as an aid to interpreting the main event which follows. The magnitude shown for this event may be high but the event can be seen clearly on stations in the United States as far away as 90 degrees.
01	09	03	41.3	33.681 N	136.793 E	383	6.6		0.9		432	NEAR S. COAST OF SOUTHERN HONSHU. Felt (IV JMA) at Tateyama, Yokohama, Tokyo, Utsunomiya and Onahama; (III JMA) on Oshima and at Chichibu, Kumagaya, Choshi, Mito, Shirakawa, Chiba, Kakioka, Nikko, Fukushima and Sakata. Felt from Hokkaido to northeastern Kyushu and on the Bonin Islands.
FEB 1984													
07	21	33	20.3	9.998 S	160.477 E	11 D	6.7	7.5	1.4		376	SOLOMON ISLANDS. Damage in southern Guadalcanal and some landslides reported. Felt throughout the Solomon Islands, (VI) at Honiara and (III) at Rabaul, New Britain.
MAR 1984													
05	03	33	50.8	8.148 N	123.775 E	646	6.6		1.0		500	MINDANAO, PHILIPPINE ISLANDS. Felt (II RF) on Mindanao, Leyte and Panay.
19	20	28	38.2	40.341 N	63.359 E	15 D	6.5	7.0	1.0		486	UZBEK SSR. At least 100 people injured and extensive damage (IX) in the Gazli area. Damage (VII-VIII) at Dzhangeldy and (VII) in the Bukhara area. Felt (VII) at Chardzhou; (VI) at Navoi and Mary; (V-VI) at Samarkand; (V) at Dzhizak and Ashkhabad; (IV) at Tashkent and Dushanbe; (III-IV) at Andizhan; (III) at Leninabad, Ura-Tyube, Chimkent and Dzhambul; (II-III) at Kulyab, Khorog and Frunze. Felt also at Mashhad, Iran.

TABLE 3-4

24	09 43 59.3	44.197 N	148.164 E	18	6.3	7.1	1.1	518	KURIL ISLANDS. Felt (V) at Yuzhno-Kurilsk and (IV) on Shikotan Felt (II JMA) at Nemuro, Obihiro and Urakawa, Hokkaido and at Hachinohe and Miyako, Honshu. Fourteen cm. tsunami at Nemuro, Hokkaido. Possible multiple event

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS TABLE

Abbreviations in Heading

MB - Body wave magnitudes.
Msz - Vertical surface wave magnitudes.
UTC - Coordinated Universal Time. HR MN SEC - Hour, minute, second.
SD - Standard Deviation from the arithmetic mean of residuals.
No. Sta. - Number of stations reporting P or PKP phases used in computation.

Symbols and Abbreviations Used in Comments

AGS Alaska Seismic Project, U.S. Geological Survey, Menlo Park, California.
GS U.S. Geological Survey, Menlo Park, California.
HVO Hawaiian Volcano Observatory.
JMA Japan Meteorological Agency (generally used to indicate 7-point Japanese Intensity Scale).
RF Rossi-Forel Intensity Scale.
SPEC An NEIS solution based on use of dense local networks, a local crustal model, or other methods not routinely applied in calculating the hypocenter parameters.

Roman Numerals Used to indicate intensity (when not followed by RF or JMA they refer to the Modified Mercalli Scale or any 12-point intensity scale closely related to it).

° ' " Geographic degrees, minutes, seconds.

-P Supplied hypocenter is a preliminary computation.

Any additional 3 to 5 letter codes enclosed in parentheses or angle brackets refer to individual station Codes. These codes may be found in Geological Survey Circular 791, Seismograph Station Codes and Characteristics (1978).

Symbols Following Depth

N Indicates the depth was restrained at 33 km for earthquakes whose character on seismograms indicates a shallow focus but whose depth is not satisfactorily determined by the data.

D Indicates the depth was restrained by the computer program based on 2 or more compatible pP phases and/or unidentified secondary arrivals used as pP.

G Indicates the depth was restrained by a geophysicist.

Symbols Following Origin Time

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations above.

COMPARISON OF RATINGS OF INTENSITY SCALES APPEARING IN PRELIMINARY DETERMINATION OF EPICENTERS

U.S.A. Modified Mercalli (M.M.), 1931	Japanese, 1950 (JMA)	Rossi-Forel, 1873 (RF)	European (Mercalli - Cancani-Sieberg), 1917
I	0	I	I
II	I	I-II	II
III	II	III	III
IV	II-III	IV-V	IV
V	III	V-VI	V
VI	IV	VI-VII	VI
VII	IV-V	VIII-	VII
VIII	V	VIII+-IX	VIII
IX	V-VI	IX+	IX
X	VI	X	X
XI	VII	X	XI
XII	VII	X	XII

TABLE 3-5

TRAVEL-TIME TABLES

In general, all hypocenters have been computed based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Some other earth model or computational procedure may have been used for those hypocenters which have been indicated by an ampersand (&) following the origin time.

NEIS MAGNITUDES

All magnitudes are NEIS magnitudes unless otherwise indicated. Average magnitudes are computed by a 25% trimmed mean as described by Rosenberger, J. L. and Gasko, M., 1983, "Comparing location estimators: trimmed means, medians, and trimean" in Understanding Robust and Exploratory Data Analysis, ed. Hoaglin, D.C., Mosteller, F., and Tukey, J. W., John Wiley, New York.

Ms These surface wave magnitudes are computed from the I.A.S.P.E.I. formula:

$$Ms = \text{Log}\ (A/T) + 1.66\ \text{Log}\ D + 3.3$$

where:

A is the maximum ground amplitude in micrometers (microns) of the vertical component of the surface wave within the period range $18 \leq T \leq 22$.

T is the period in seconds.

D is the distance in geocentric degrees (station to epicenter) and $20° \leq D \leq 160°$.

No depth corrections are applied, and Ms magnitudes are not generally computed for depths greater than 50 km. The Ms value published is the average of the individual station magnitudes from reported T and A data.

If the uncertainty of the computed depth is considered great enough that the depth could be less than 50 km, an MS value may still be published, computed by the I.A.S.P.E.I. formula and not corrected for depth.

In general, the Ms magnitude is more reliable than the MB magnitude as a means of yielding the relative "size" of a shallow-focus earthquake.

MB These compressional body wave (P-wave) magnitudes are computed according to the formula:

$$MB = \text{Log}\ (A/T) + Q(D,h)$$

defined by Gutenberg and Richter (1956) except that T, the period in seconds, is restricted to $0.1 \leq T \leq 3.0$ and A, the ground amplitude in micrometers, is not necessarily the maximum in the P group. Q is a function of distance (D) and depth (h) where $D \geq 5°$.

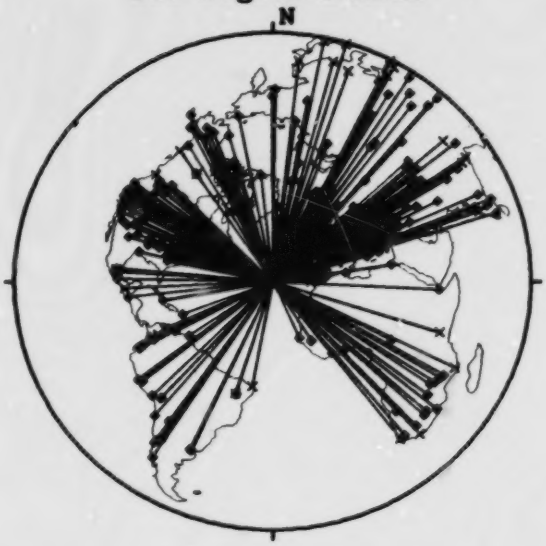
REFERENCES

Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: Annali di Geofisica, v. 9, no. 1, p. 1-15.

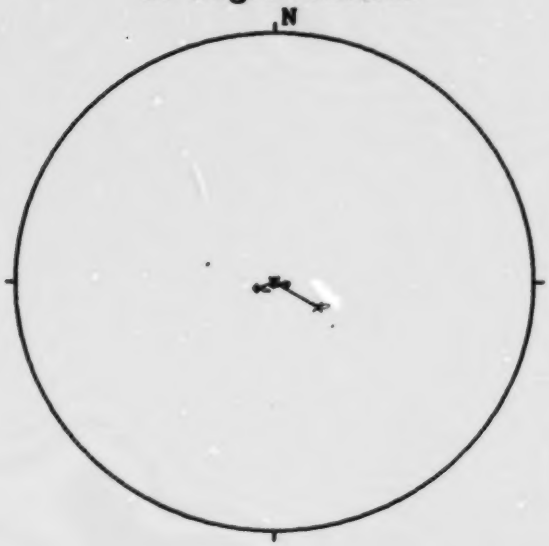
Richter, C. F., 1935, An instrumental earthquake scale: Bulletin of the Seismological Society of America, v. 25, p. 1-32.

Figure 1

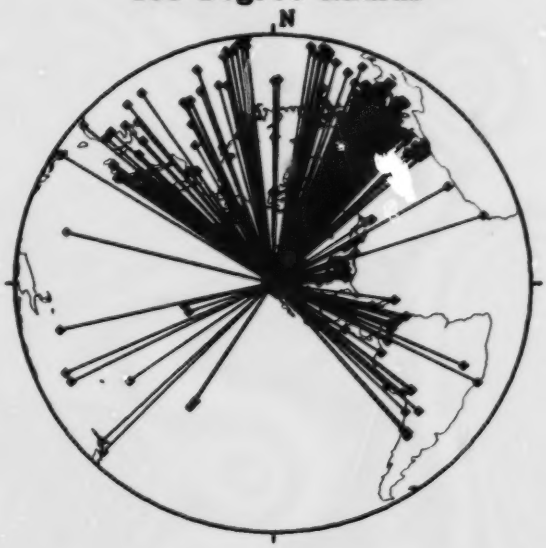
JAN 01, 1980 16:42:40
AZORES ISLANDS
105 Degree Radius



JAN 01, 1980 16:42:40
AZORES ISLANDS
10 Degree Radius



MAY 25, 1980 16:33:44
CALIFORNIA–NEVADA BORDER REGION
105 Degree Radius



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CALIFORNIA–NEVADA BORDER REGION
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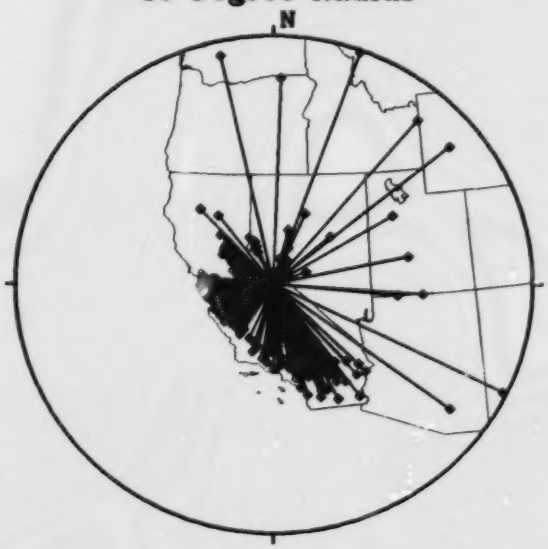
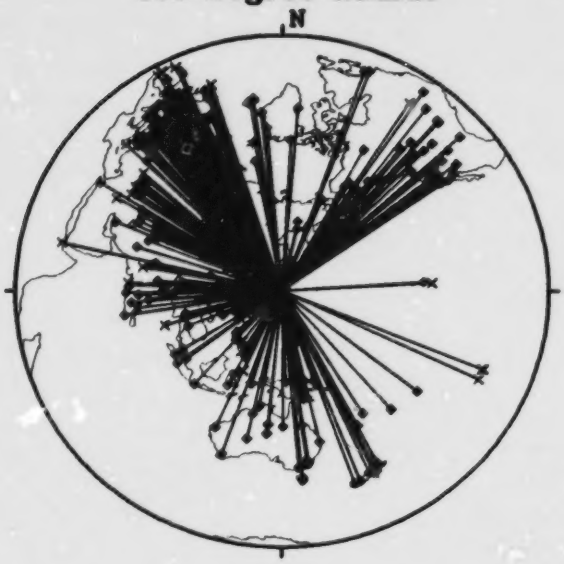


Figure 2

JUN 29, 1980 07:20:07
NEAR S. COAST OF HONSHU, JAPAN
105 Degree Radius



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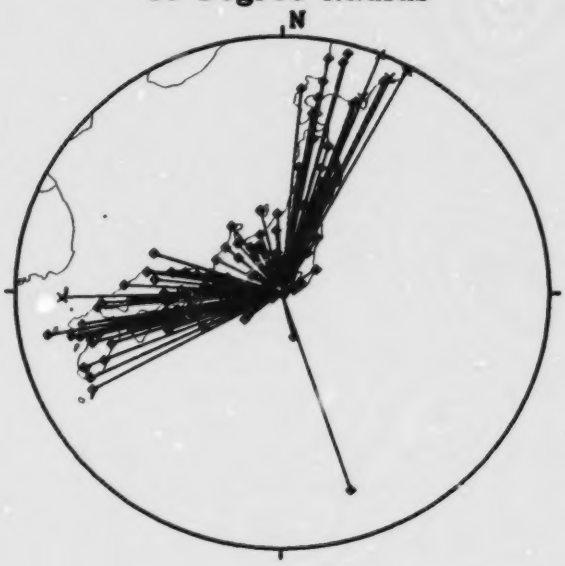
NEAR S. COAST OF HONSHU, JAPAN
10 Degree Radius



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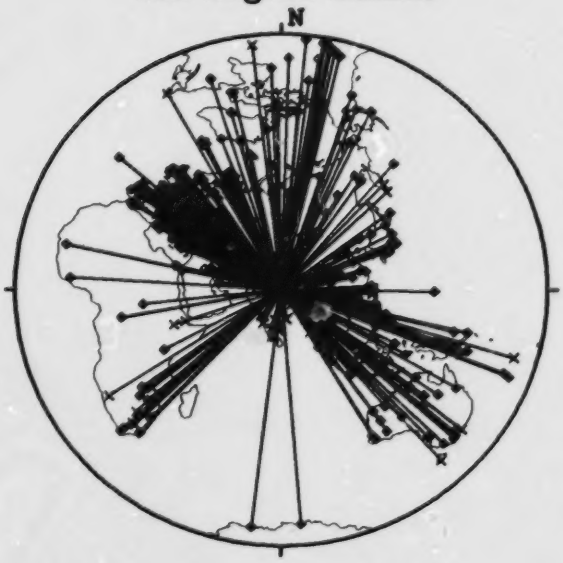
NEPAL
105 Degree Radius



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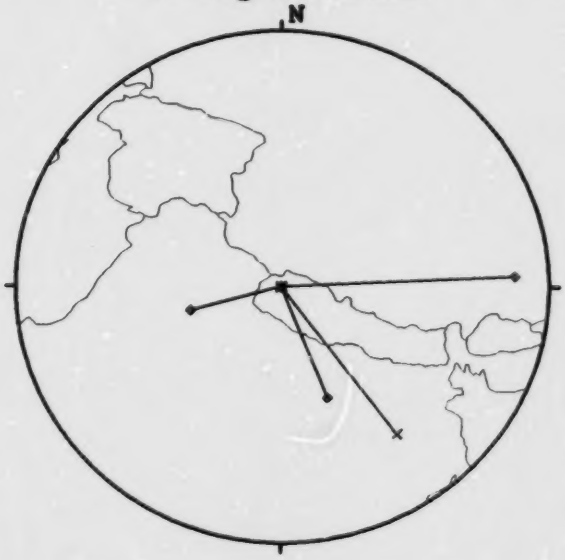
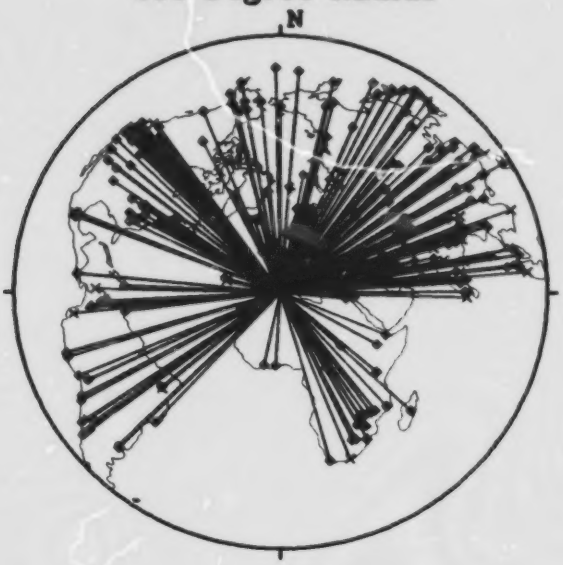


Figure 3

OCT 10, 1980 12:25:23
ALGERIA
105 Degree Radius



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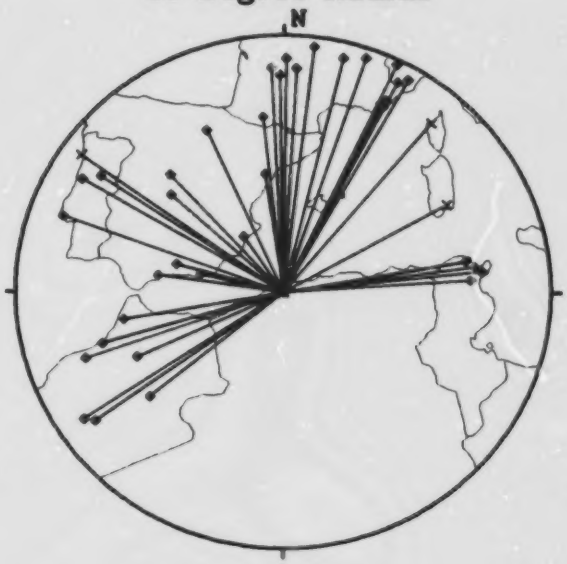
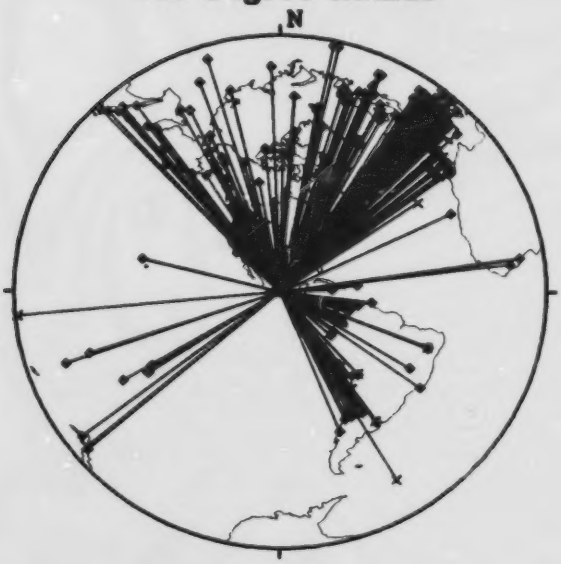
ALGERIA
10 Degree Radius



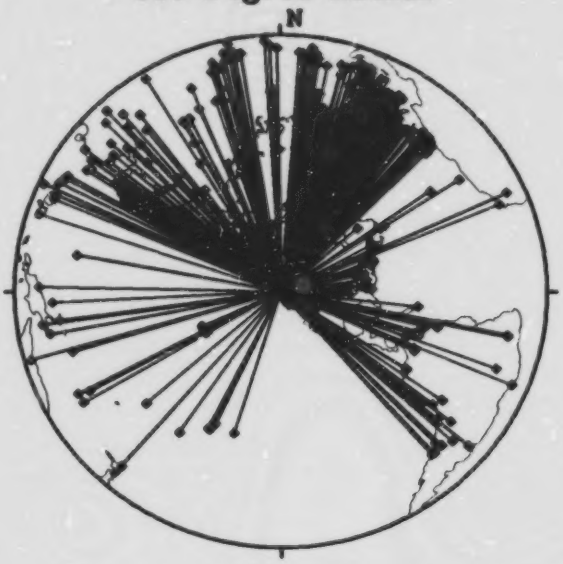
OCT 24, 1980 14:53:34
CENTRAL MEXICO
105 Degree Radius



OCT 24, 1980 14:53:34
CENTRAL MEXICO
10 Degree Radius

Figure 4

NOV 08, 1980 10:27:33
NEAR COAST OF NORTHERN CALIF.
105 Degree Radius



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NEAR COAST OF NORTHERN CALIF.
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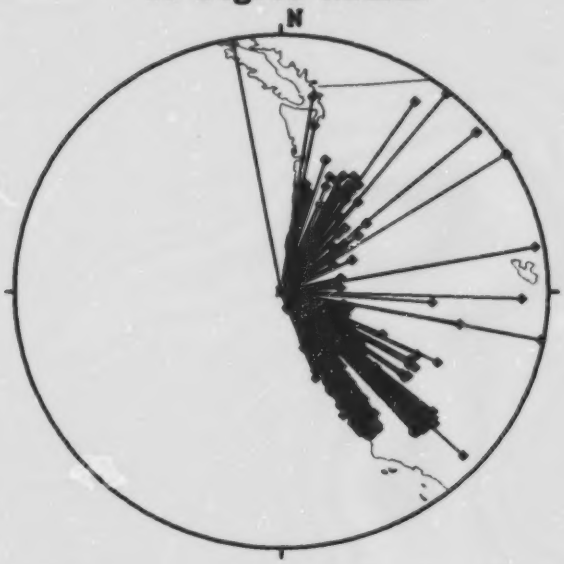

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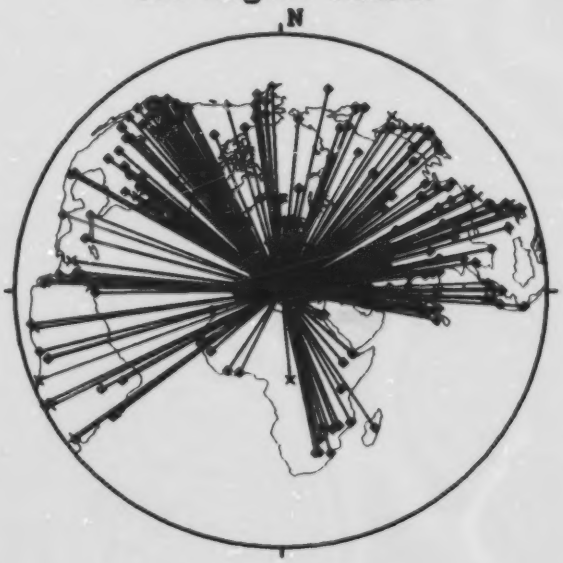
SOUTHERN ITALY
105 Degree Radius



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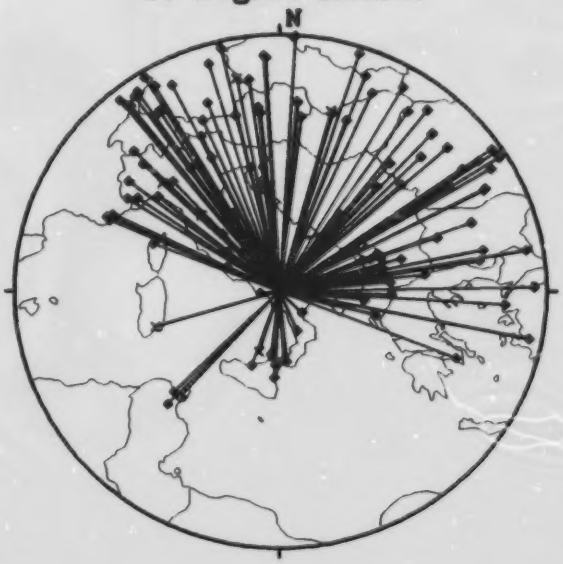
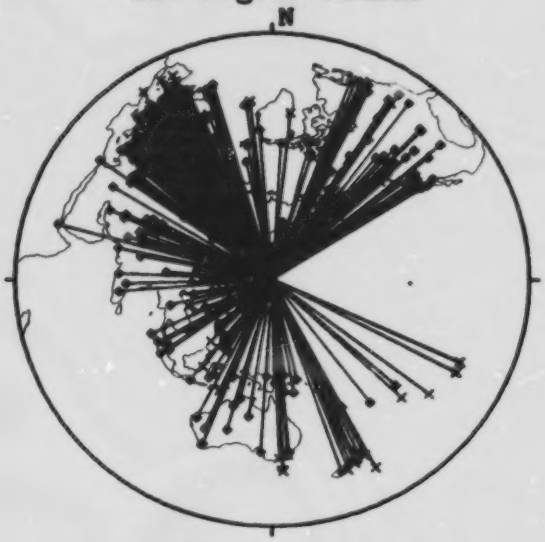


Figure 5

JAN 18,1981 18:17:26
NEAR EAST COAST OF HONSHU, JAPAN
105 Degree Radius



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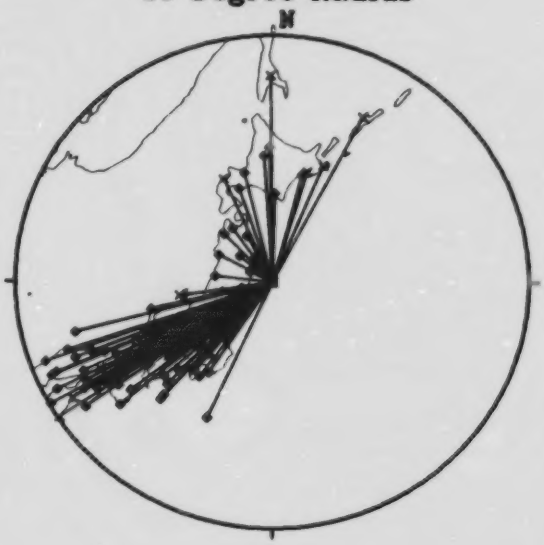
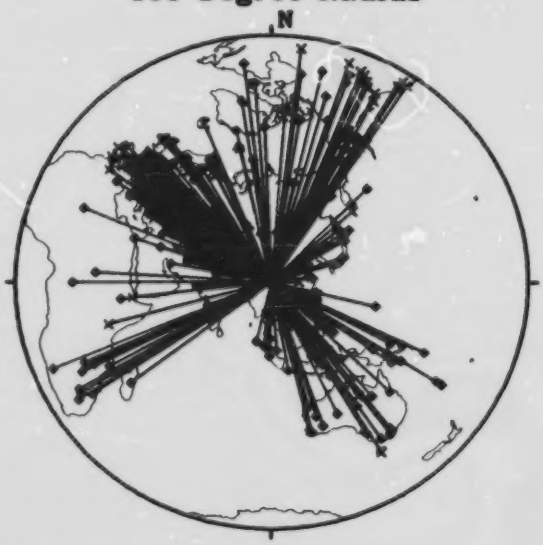
10 Degree Radius



JAN 23, 1981 21:13:48
SICHUAN PROVINCE, CHINA
105 Degree Radius



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10 Degree Radius

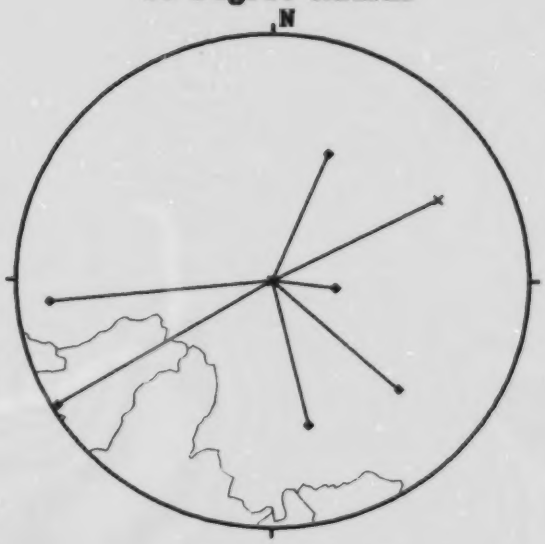
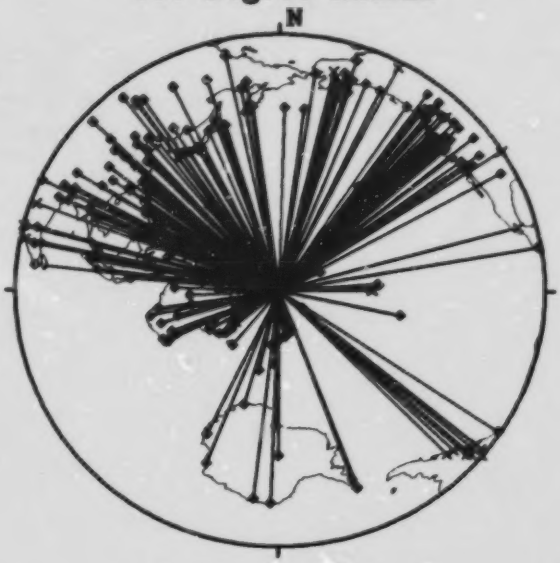


Figure 6

JUL 06, 1981 03:08:34
LOYALTY ISLANDS REGION
105 Degree Radius



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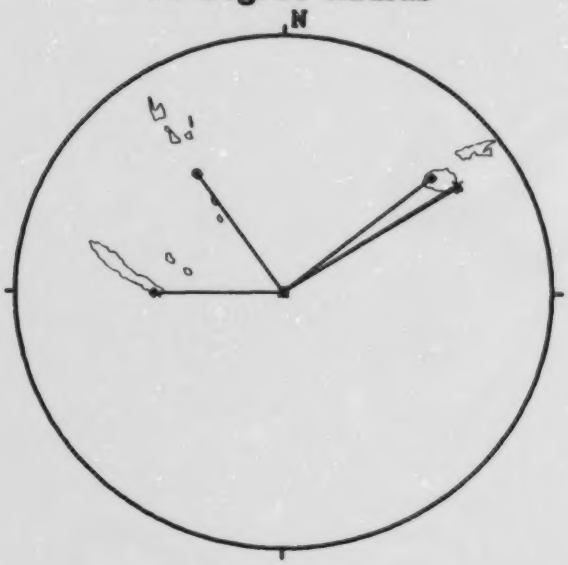
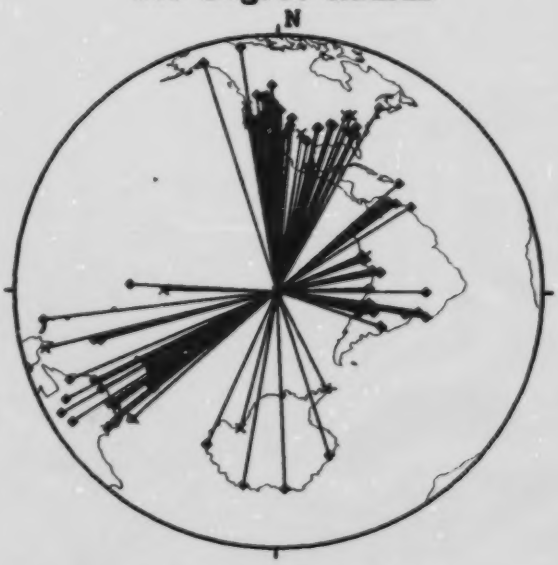
LOYALTY ISLANDS REGION
10 Degree Radius



OCT 28, 1981 04:34:17
EASTER ISLAND REGION
105 Degree Radius



OCT 28, 1981 04:34:17
EASTER ISLAND REGION
35 Degree Radius

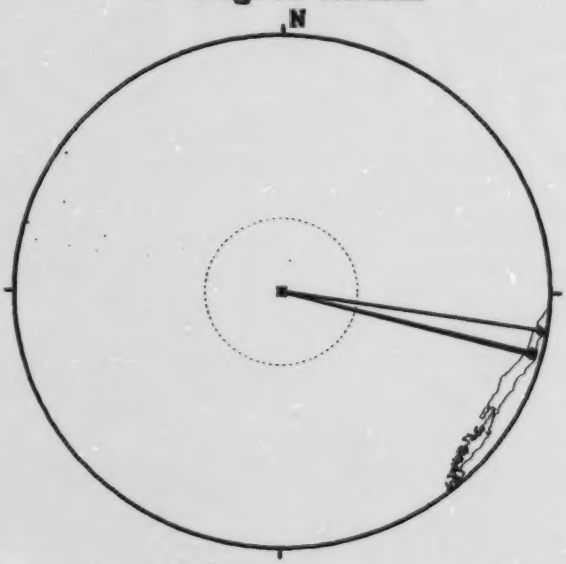
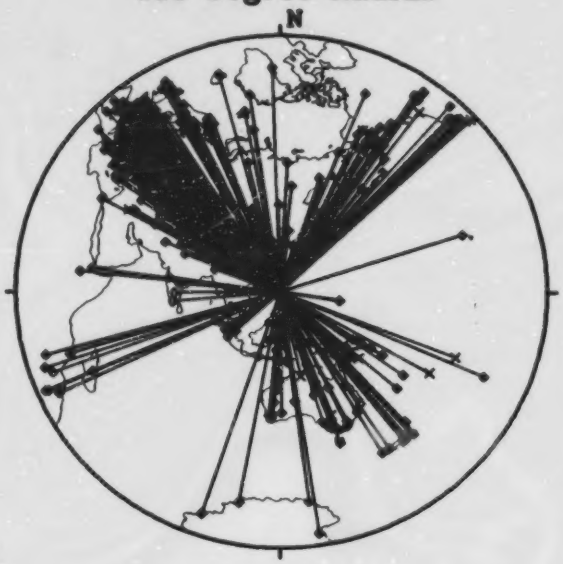
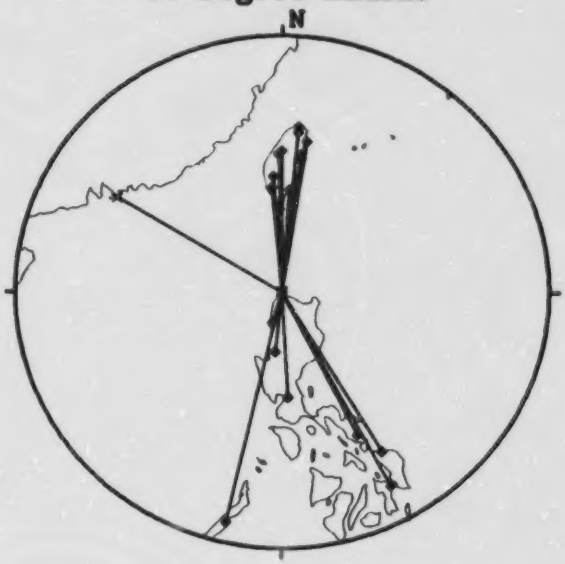


Figure 7

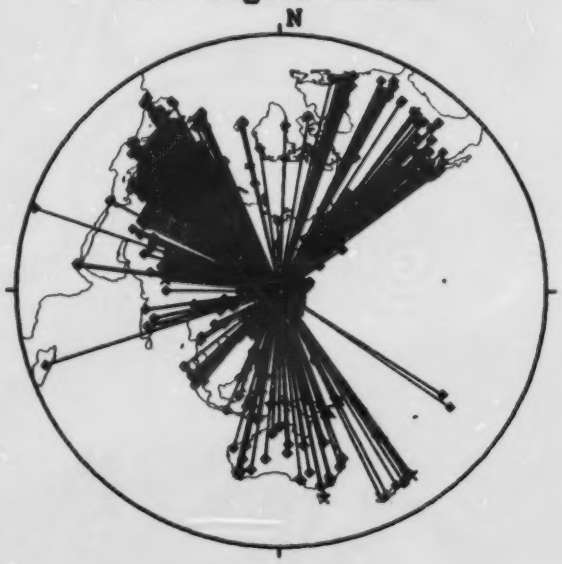
NOV 22, 1981 15:05:22
LUZON, PHILIPPINE ISLANDS
105 Degree Radius



NOV 22, 1981 15:05:22
LUZON, PHILIPPINE ISLANDS
10 Degree Radius



NOV 27, 1981 17:21:45
E. USSR–N.E. CHINA BORDER REG.
105 Degree Radius



NOV 27, 1981 17:21:45
E. USSR–N.E. CHINA BORDER REG.
10 Degree Radius

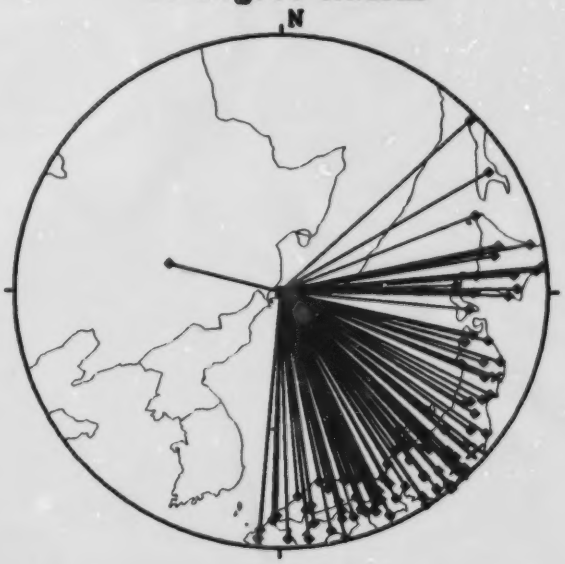
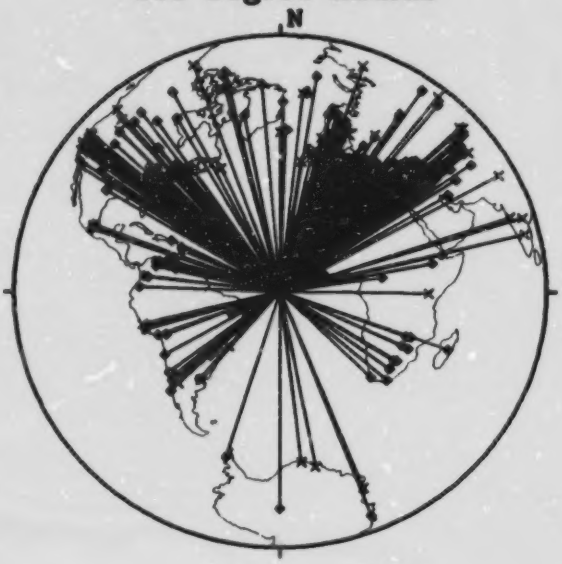
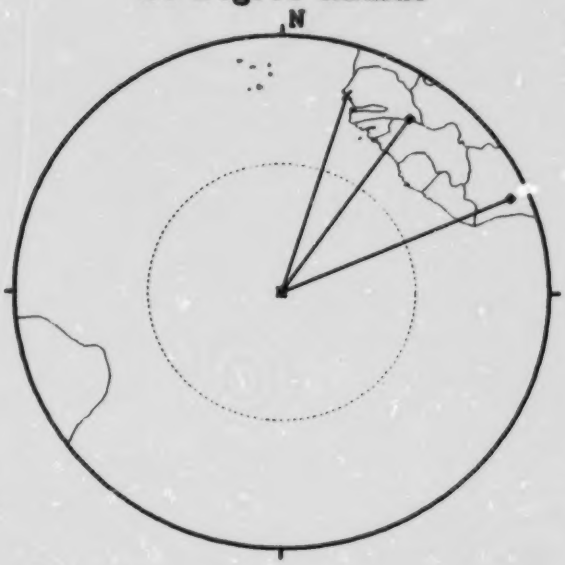


Figure 8

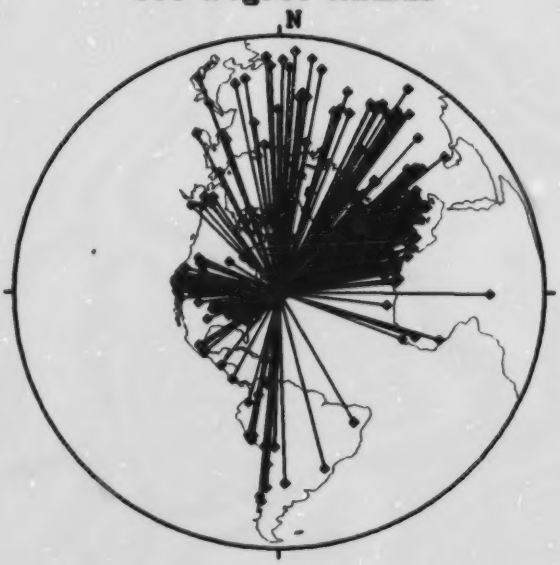
JAN 03, 1982 14:09:50
CENTRAL MID-ATLANTIC RIDGE
105 Degree Radius



JAN 03, 1982 14:09:50
CENTRAL MID-ATLANTIC RIDGE
20 Degree Radius



JAN 09, 1982 12:53:51
NEW BRUNSWICK
105 Degree Radius



JAN 09, 1982 12:53:51
NEW BRUNSWICK
10 Degree Radius

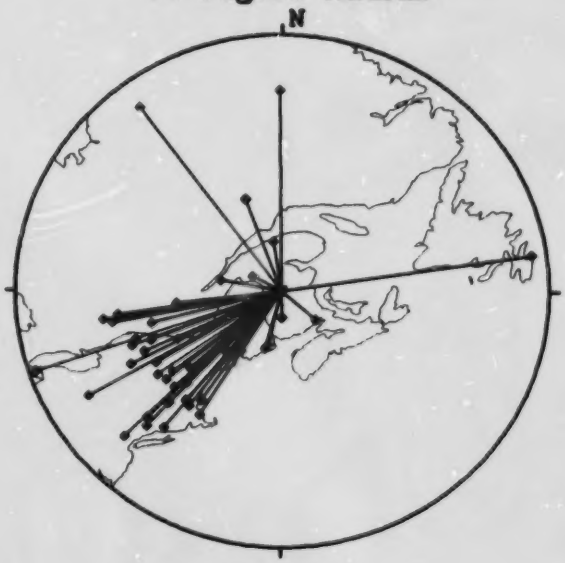
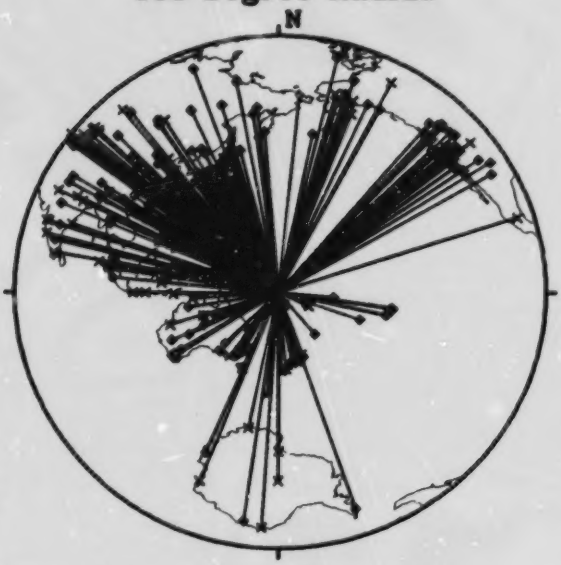
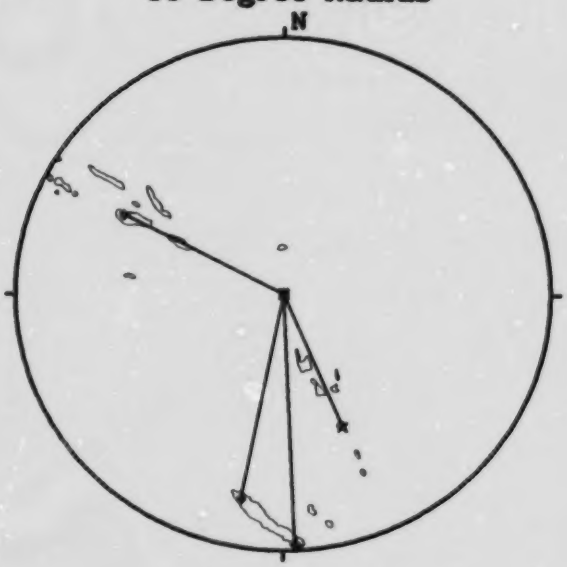


Figure 9

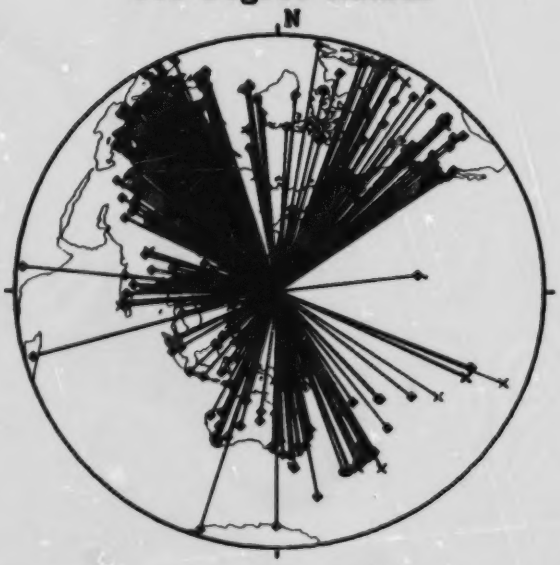
AUG 05, 1982 20:32:48
SANTA CRUZ ISLANDS
105 Degree Radius



AUG 05, 1982 20:32:48
SANTA CRUZ ISLANDS
10 Degree Radius



SEP 06, 1982 01:47:03
SOUTH OF HONSHU, JAPAN
105 Degree Radius



SEP 06, 1982 01:47:03
SOUTH OF HONSHU, JAPAN
10 Degree Radius

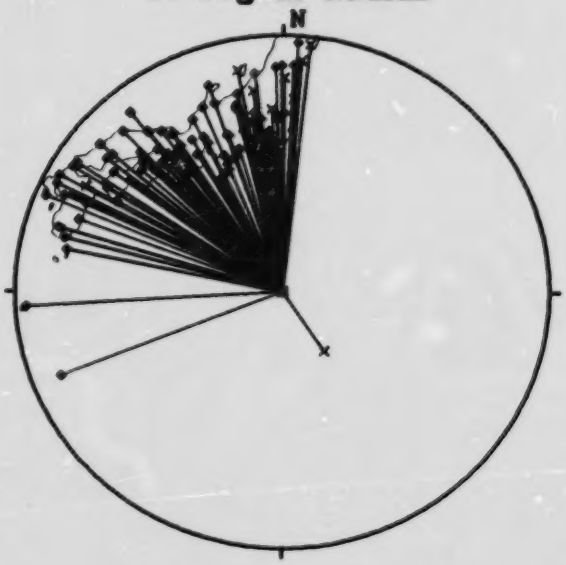
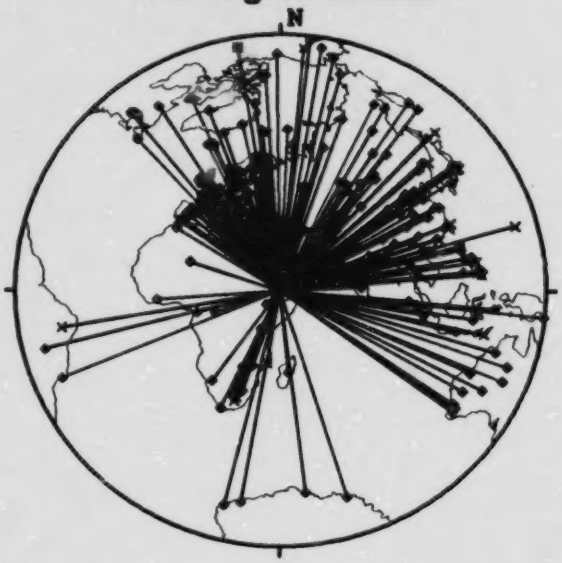
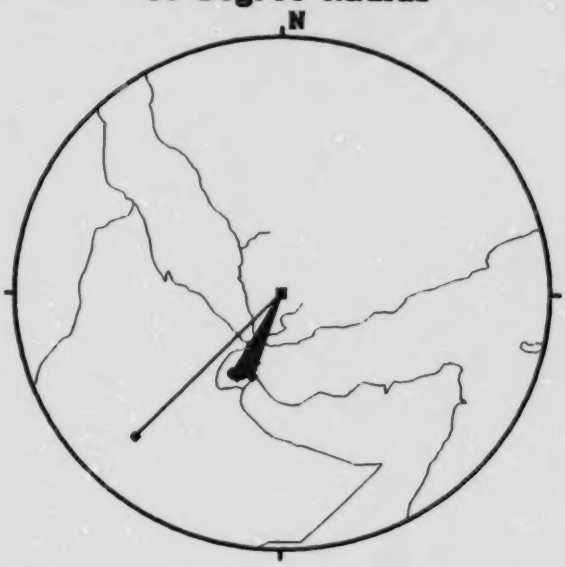


Figure 10

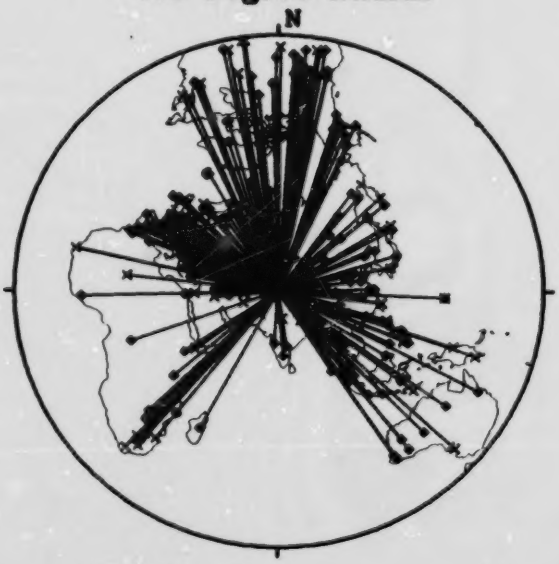
DEC 13, 1982 09:12:48
WESTERN ARABIAN PENINSULA
105 Degree Radius



DEC 13, 1982 09:12:48
WESTERN ARABIAN PENINSULA
10 Degree Radius



FEB 13, 1983 01:40:11
SOUTHERN XINJIANG, CHINA
105 Degree Radius



FEB 13, 1983 01:40:11
SOUTHERN XINJIANG, CHINA
10 Degree Radius

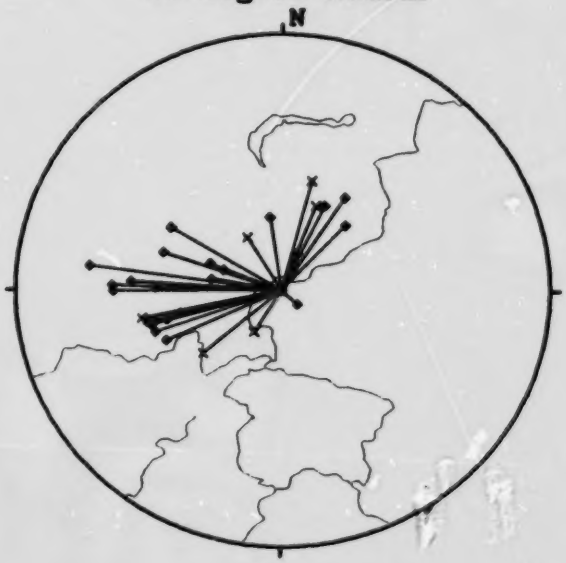
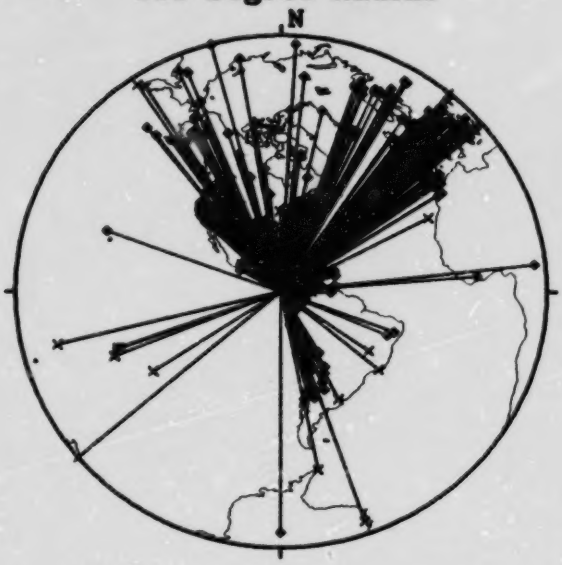
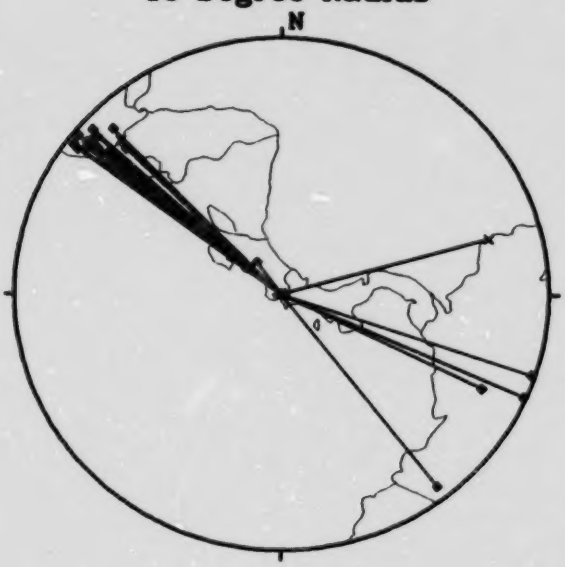


Figure 11

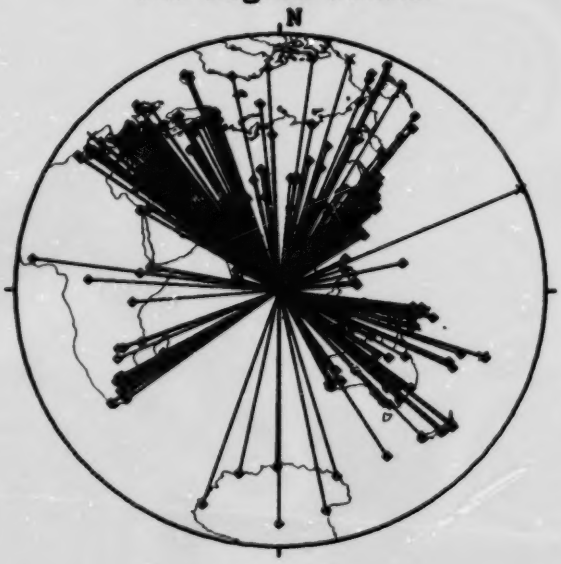
APR 03, 1983 02:50:02
COSTA RICA
105 Degree Radius



APR 03, 1983 02:50:02
COSTA RICA
10 Degree Radius



APR 04, 1983 02:51:34
NORTHERN SUMATERA
105 Degree Radius



APR 04, 1983 02:51:34
NORTHERN SUMATERA
10 Degree Radius

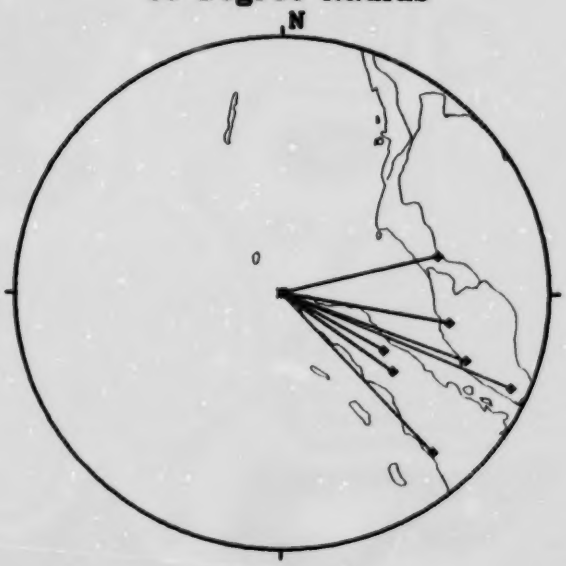
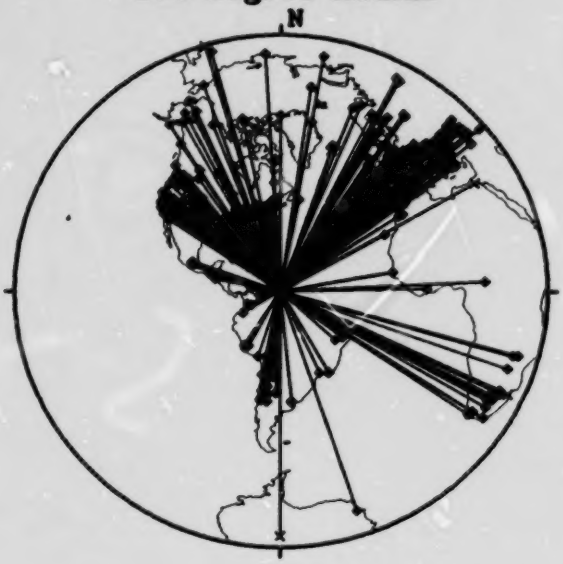
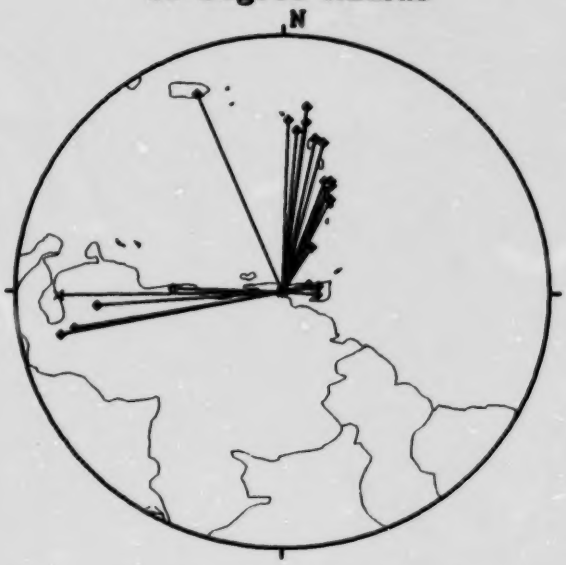


Figure 12

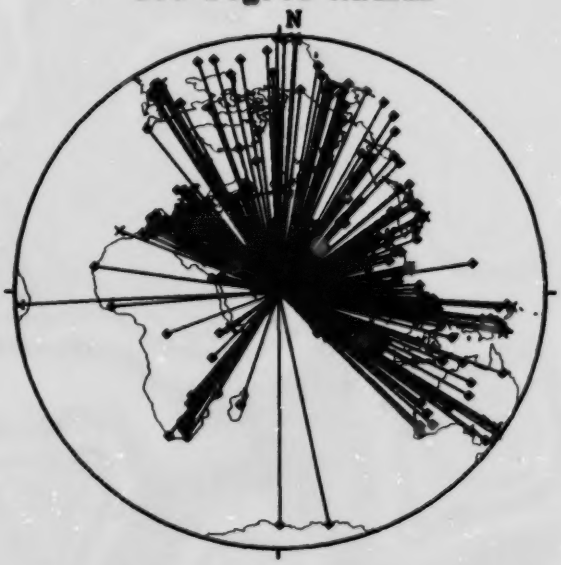
APR 11, 1983 08:18:10
NEAR COAST OF VENEZUELA
105 Degree Radius



APR 11, 1983 08:18:10
NEAR COAST OF VENEZUELA
10 Degree Radius



APR 18, 1983 10:58:48
SOUTHERN IRAN
105 Degree Radius



APR 18, 1983 10:58:48
SOUTHERN IRAN
10 Degree Radius

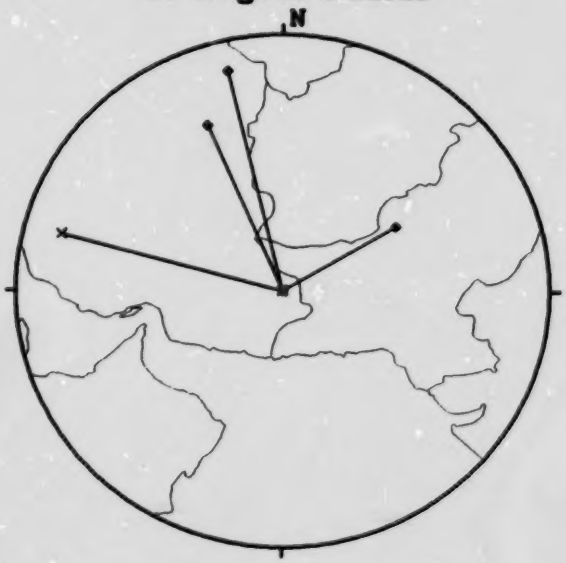
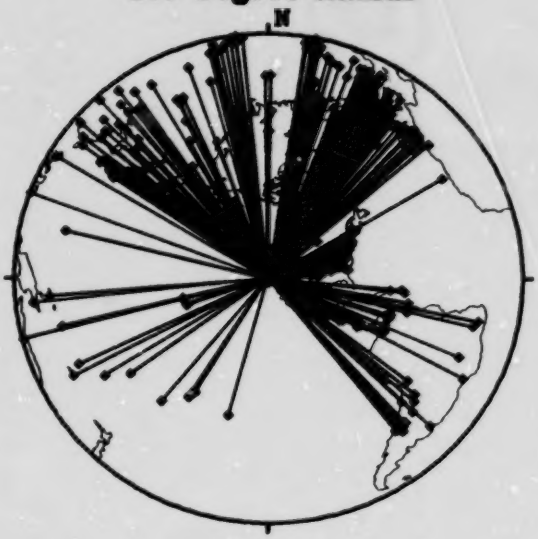
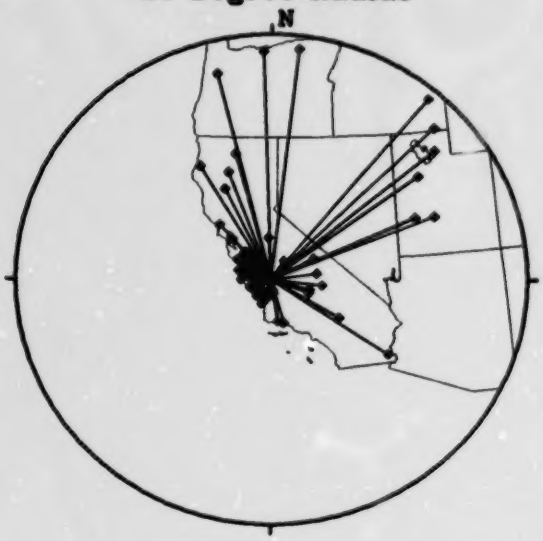


Figure 13

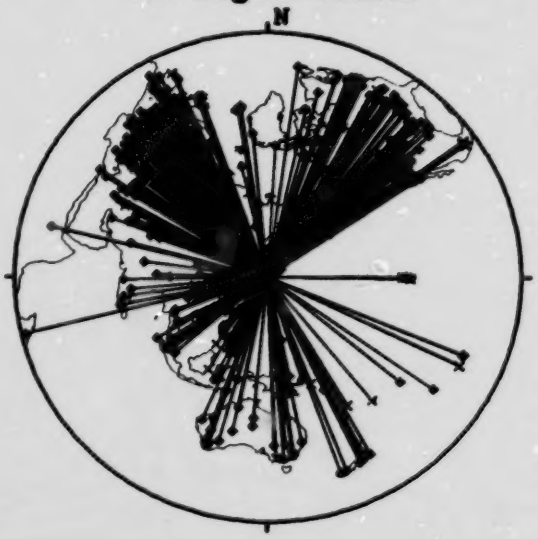
MAY 02, 1983 23:42:37
CENTRAL CALIFORNIA
105 Degree Radius



MAY 02, 1983 23:42:37
CENTRAL CALIFORNIA
10 Degree Radius



MAY 26, 1983 02:59:59
NEAR WEST COAST OF HONSHU, JAPAN
105 Degree Radius



MAY 26, 1983 02:59:59
NEAR WEST COAST OF HONSHU, JAPAN
10 Degree Radius

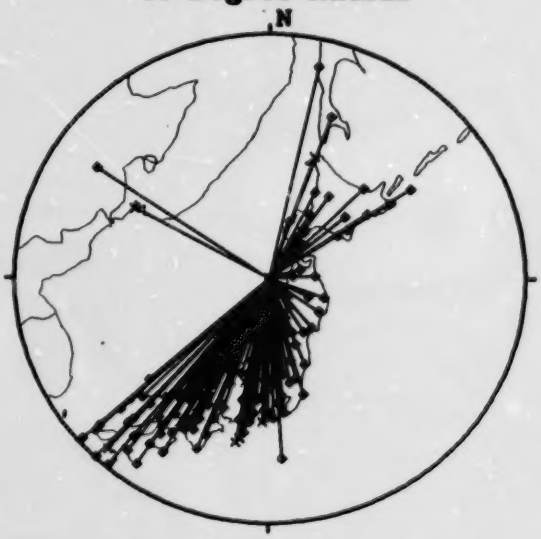
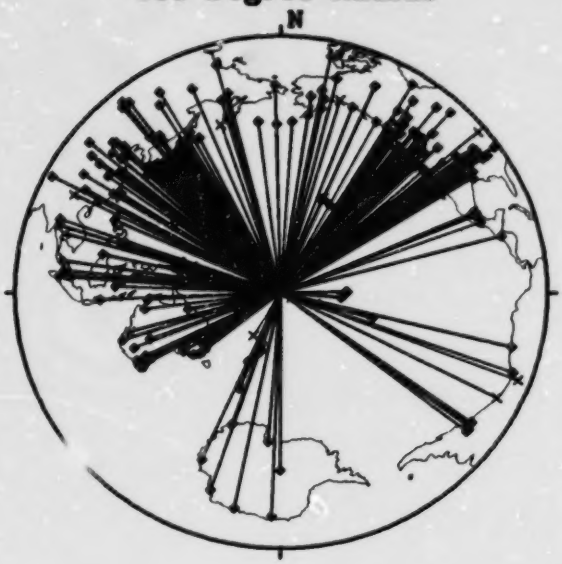
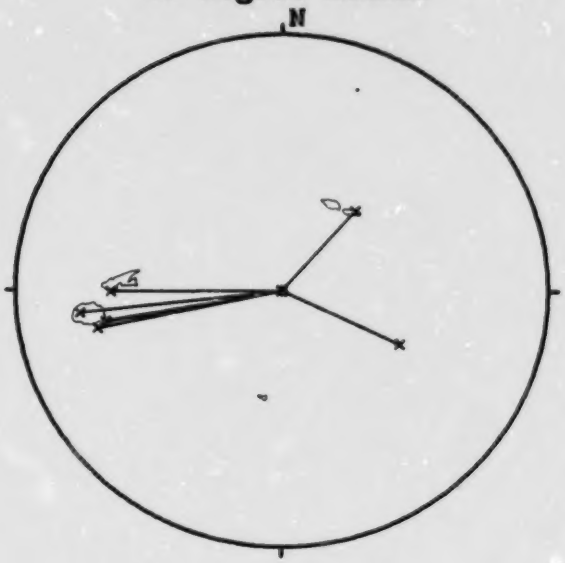


Figure 14

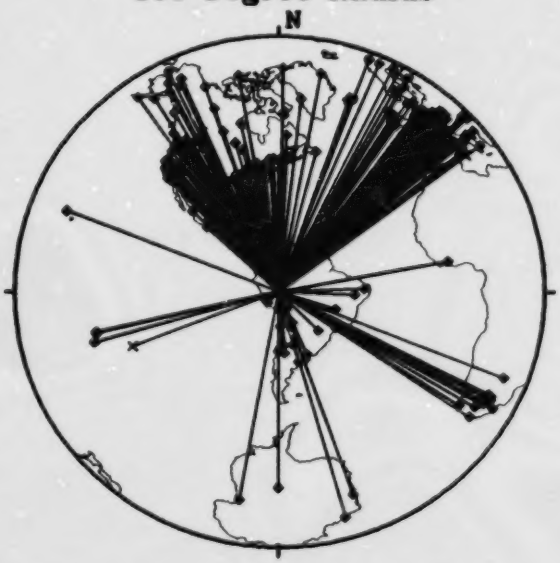
JUN 01, 1983 01:59:54
TONGA ISLANDS
105 Degree Radius



JUN 01, 1983 01:59:54
TONGA ISLANDS
10 Degree Radius



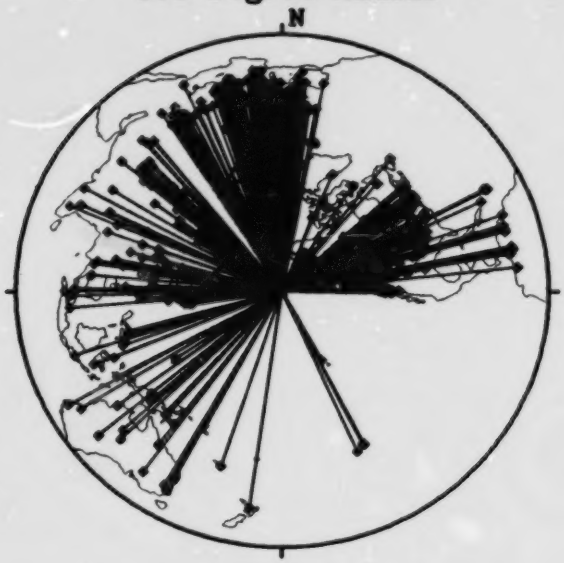
JUN 02, 1983 20:12:50
PERU-BRAZIL BORDER REGION
105 Degree Radius



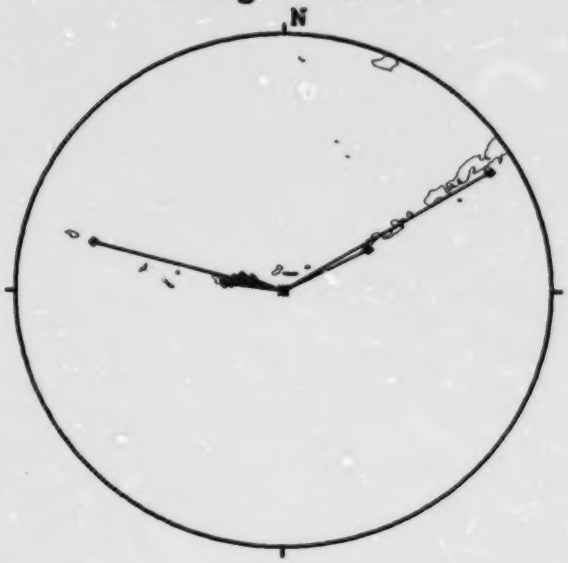
JUN 02, 1983 20:12:50
PERU-BRAZIL BORDER REGION
10 Degree Radius

Figure 15

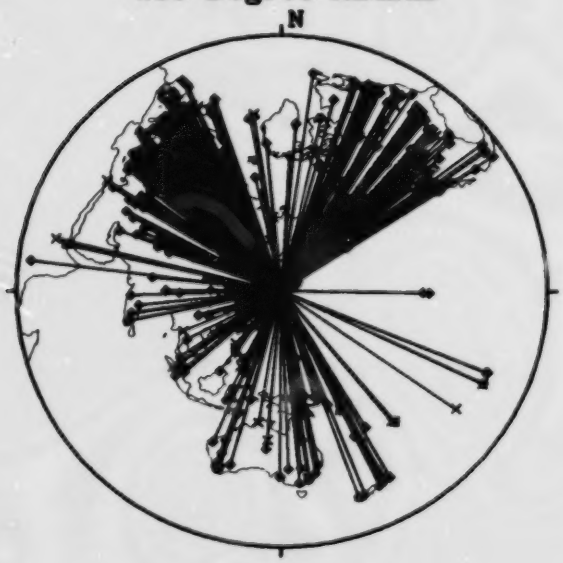
JUN 09, 1983 18:46:02
ANDREANOF ISLANDS, ALEUTIAN IS.
105 Degree Radius



JUN 09, 1983 18:46:02
ANDREANOF ISLANDS, ALEUTIAN IS.
10 Degree Radius



JUN 21, 1983 06:25:26
HOKKAIDO, JAPAN REGION
105 Degree Radius



JUN 21, 1983 06:25:26
HOKKAIDO, JAPAN REGION
10 Degree Radius

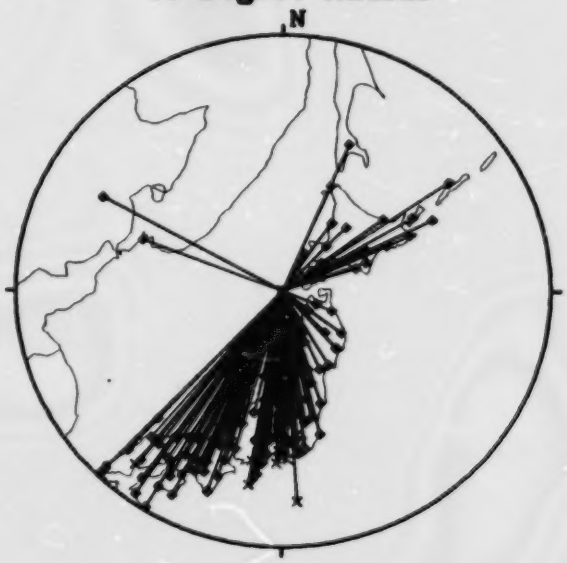
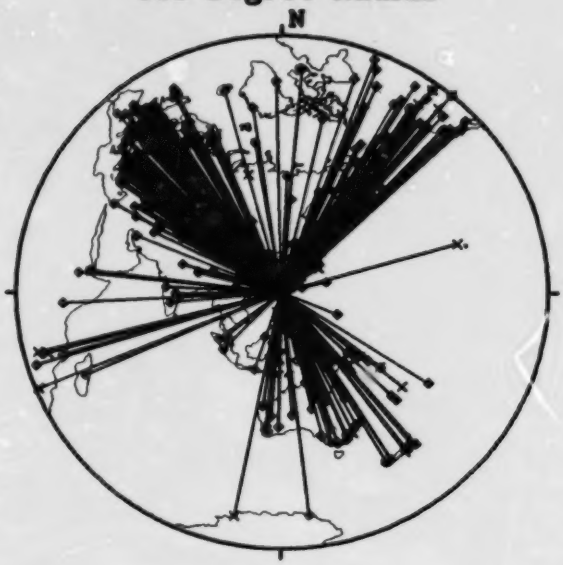
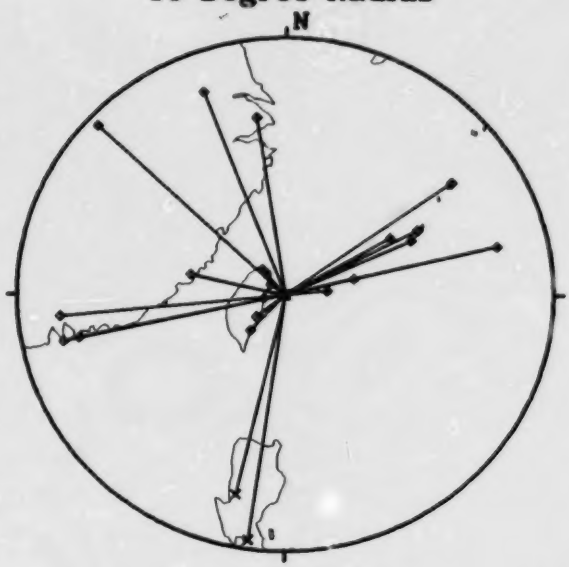


Figure 16

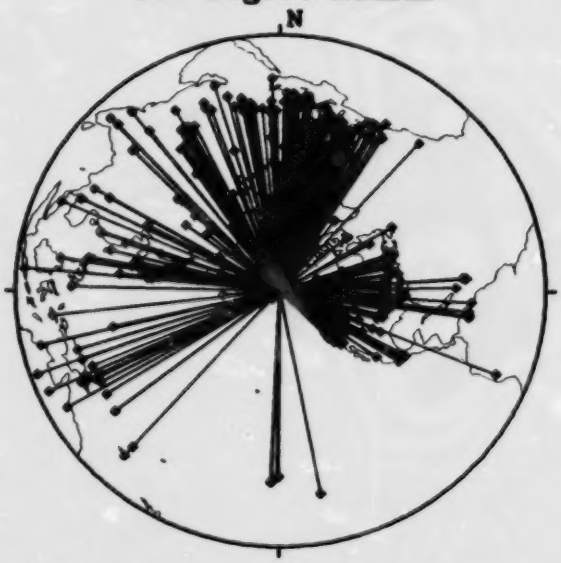
JUN 24, 1983 09:06:45
TAIWAN REGION
105 Degree Radius



JUN 24, 1983 09:06:45
TAIWAN REGION
10 Degree Radius



JUL 12, 1983 15:10:04
SOUTHERN ALASKA
105 Degree Radius



JUL 12, 1983 15:10:04
SOUTHERN ALASKA
10 Degree Radius

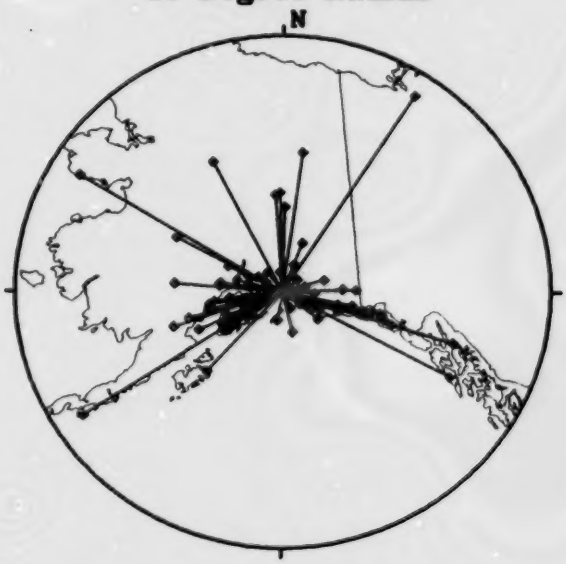
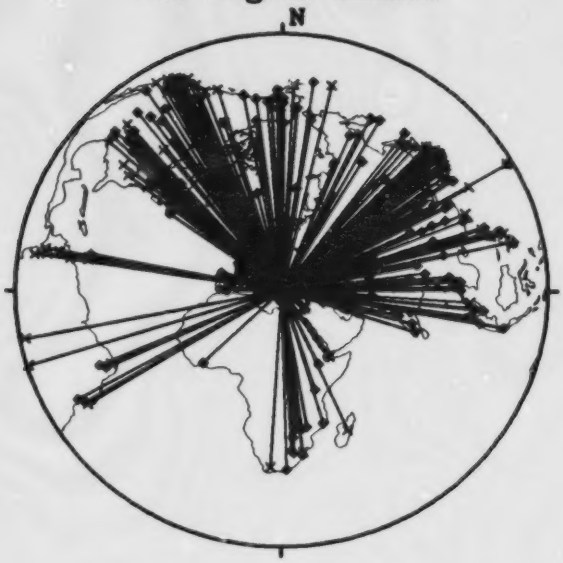
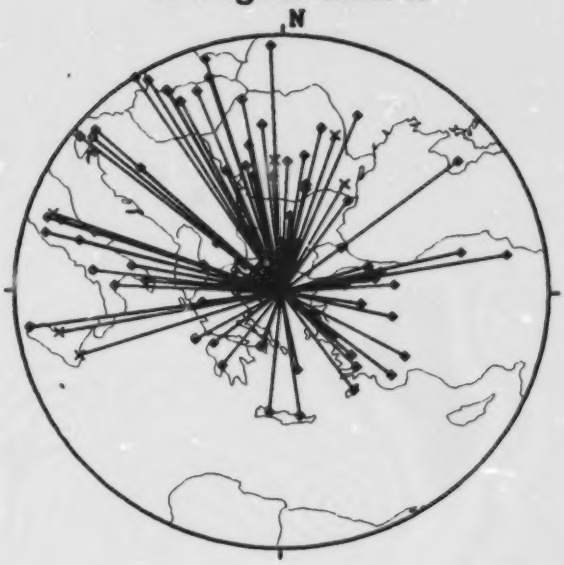


Figure 17

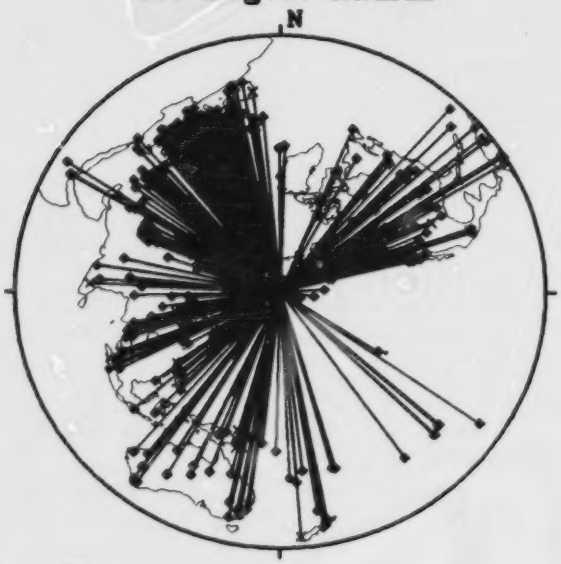
AUG 06, 1983 15:43:52
AEGEAN SEA
105 Degree Radius



AUG 06, 1983 15:43:52
AEGEAN SEA
10 Degree Radius



AUG 17, 1983 10:55:54
NEAR EAST COAST OF KAMCHATKA
105 Degree Radius



AUG 17, 1983 10:55:54
NEAR EAST COAST OF KAMCHATKA
10 Degree Radius

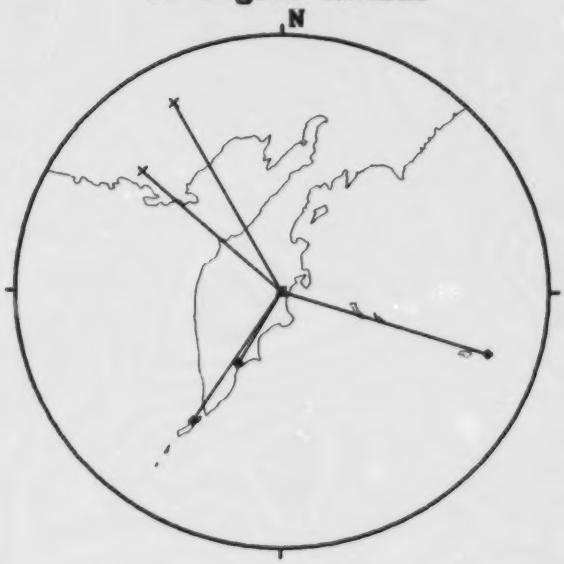
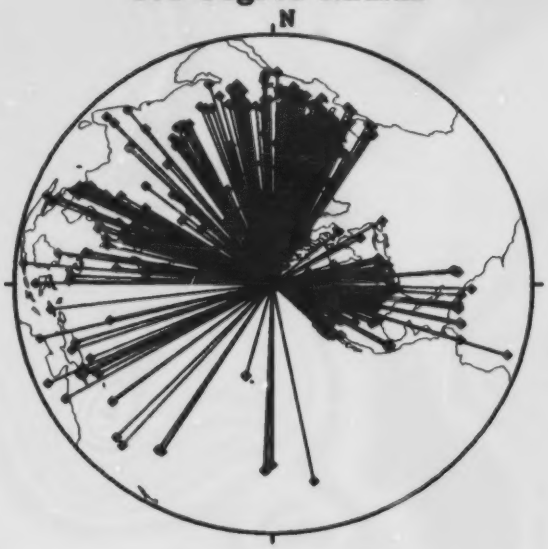
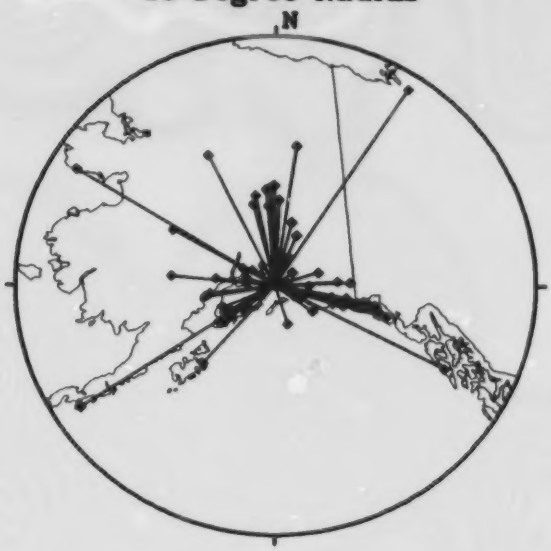


Figure 18

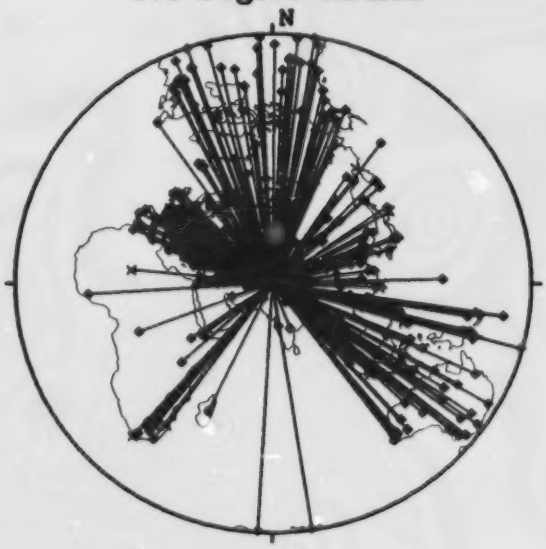
SEP 07, 1983 19:22:05
SOUTHERN ALASKA
105 Degree Radius



SEP 07, 1983 19:22:05
SOUTHERN ALASKA
10 Degree Radius



SEP 12, 1983 15:42:08
AFGHANISTAN–USSR BORDER REGION
105 Degree Radius



SEP 12, 1983 15:42:08
AFGHANISTAN–USSR BORDER REGION
10 Degree Radius

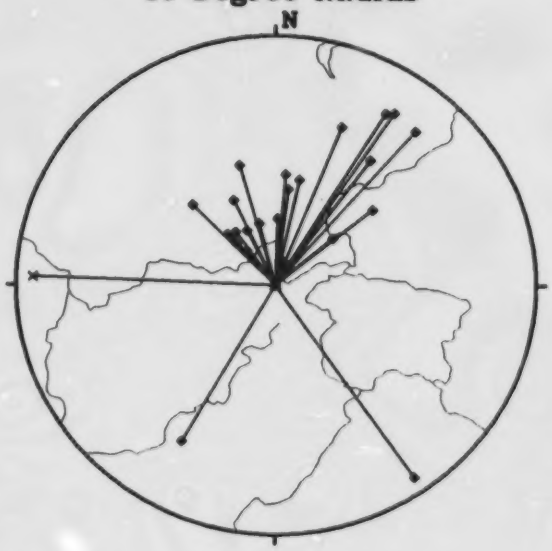
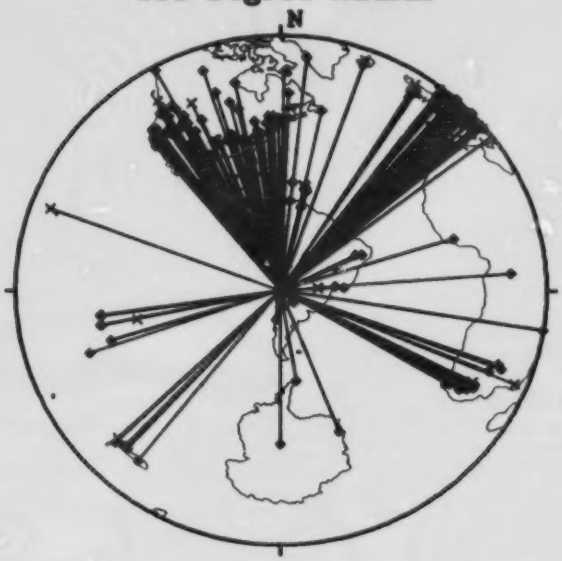
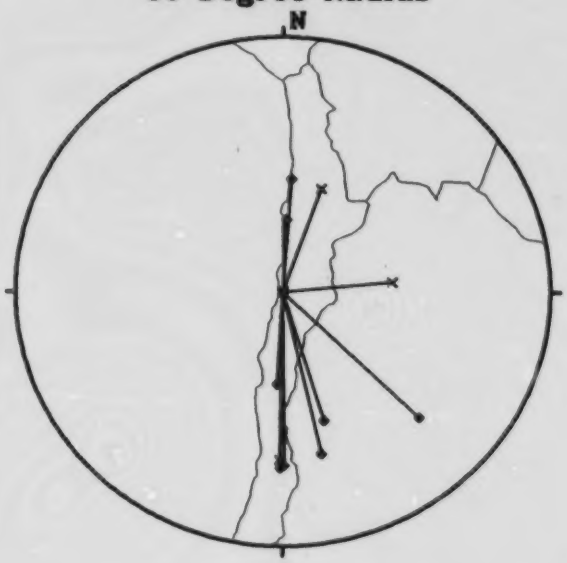


Figure 19

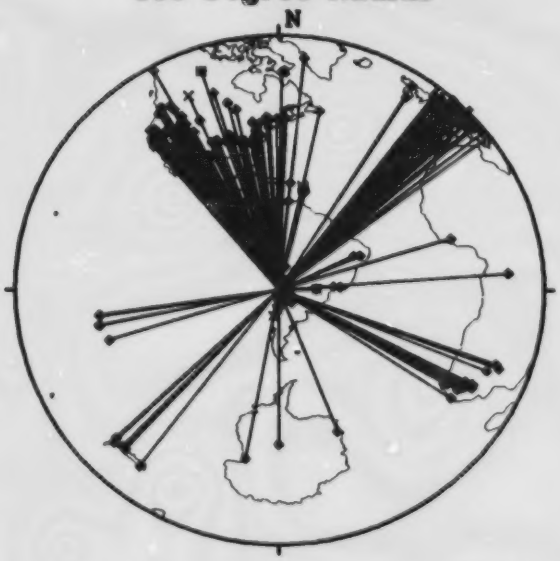
OCT 04, 1983 18:52:12
NEAR COAST OF NORTHERN CHILE
105 Degree Radius



OCT 04, 1983 18:52:12
NEAR COAST OF NORTHERN CHILE
10 Degree Radius



OCT 09, 1983 11:25:38
NEAR COAST OF NORTHERN CHILE
105 Degree Radius



OCT 09, 1983 11:25:38
NEAR COAST OF NORTHERN CHILE
10 Degree Radius

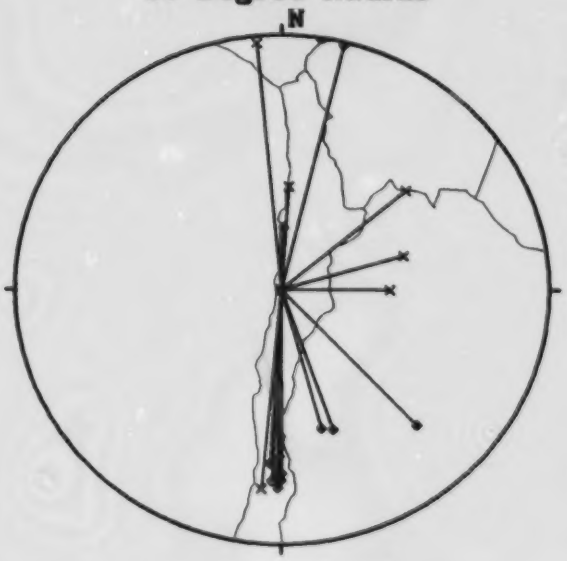
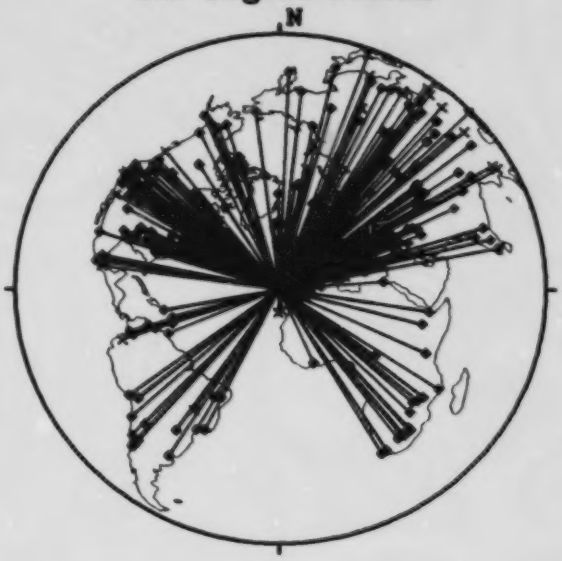
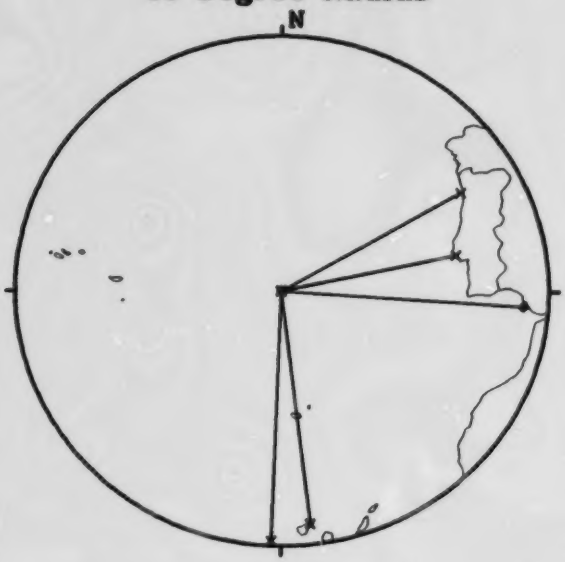


Figure 20

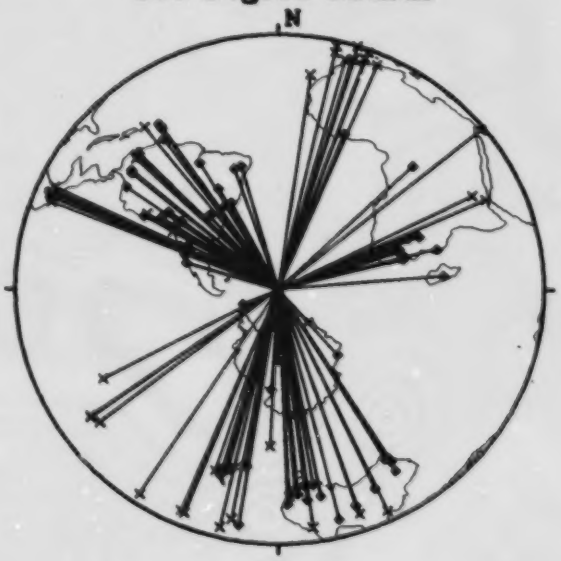
OCT 17, 1983 19:36:22
NORTH ATLANTIC OCEAN
105 Degree Radius



OCT 17, 1983 19:36:22
NORTH ATLANTIC OCEAN
10 Degree Radius



OCT 22, 1983 04:21:35
SOUTH SANDWICH ISLANDS REGION
105 Degree Radius



OCT 22, 1983 04:21:35
SOUTH SANDWICH ISLANDS REGION
20 Degree Radius

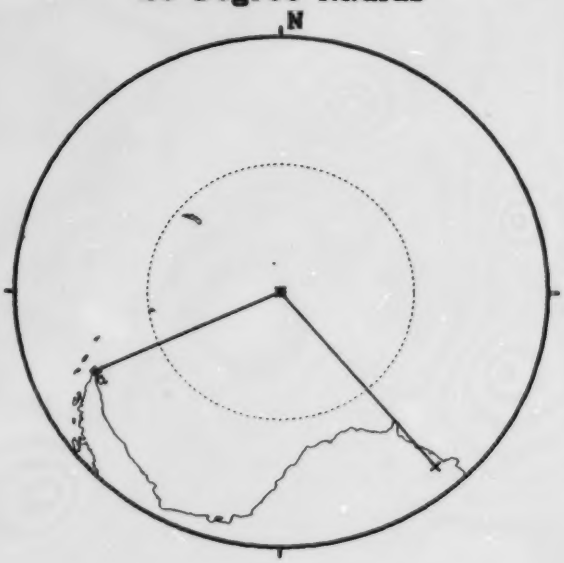
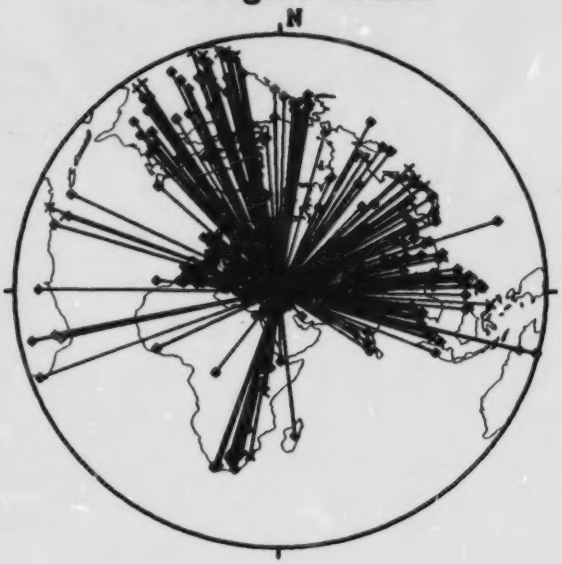
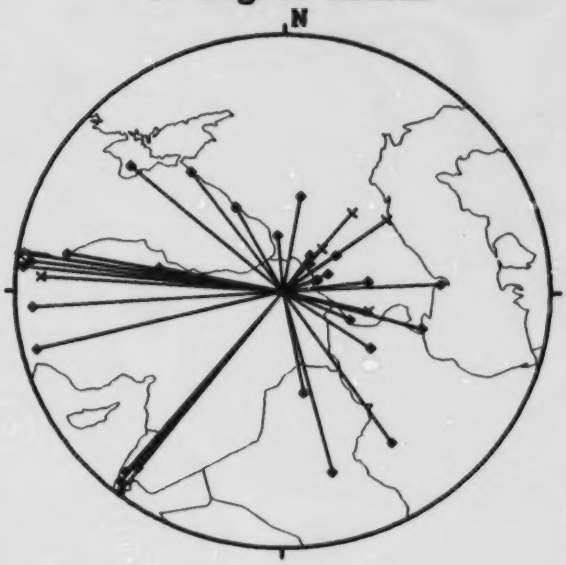


Figure 21

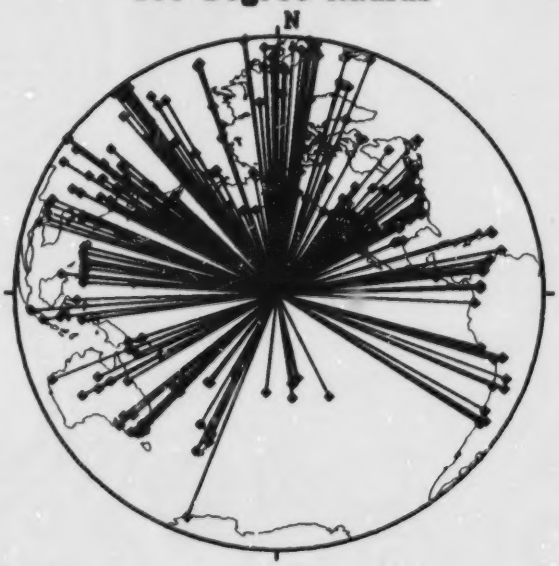
OCT 30, 1983 04:12:28
TURKEY
105 Degree Radius



OCT 30, 1983 04:12:28
TURKEY
10 Degree Radius



NOV 16, 1983 16:13:00
HAWAII
105 Degree Radius



NOV 16, 1983 16:13:00
HAWAII
10 Degree Radius

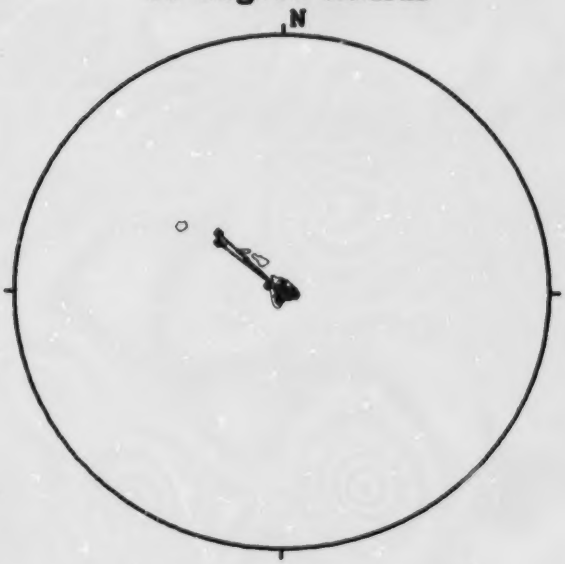
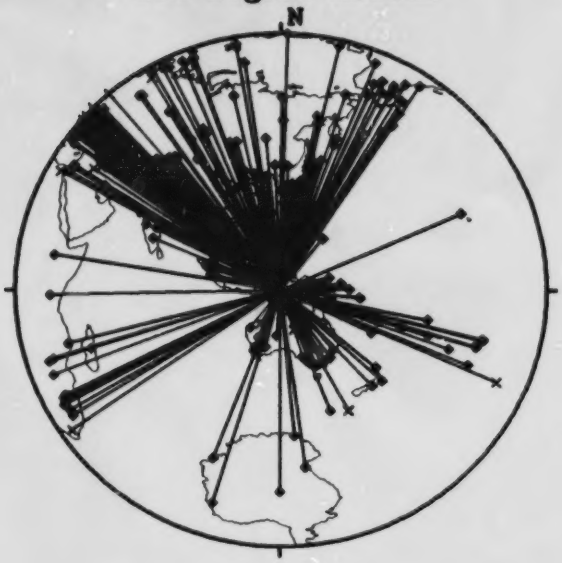


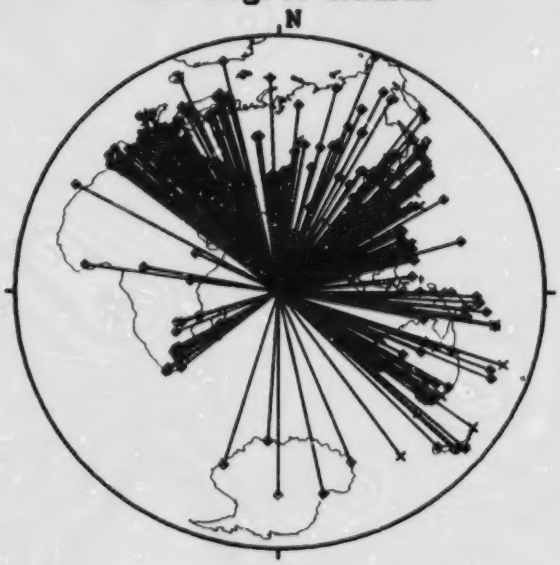
Figure 22

NOV 24, 1983 05:30:36
BANDA SEA
105 Degree Radius



NOV 24, 1983 05:30:36
BANDA SEA
10 Degree Radius

NOV 30, 1983 17:46:00
CHAGOS ARCHIPELAGO REGION
105 Degree Radius



NOV 30, 1983 17:46:00
CHAGOS ARCHIPELAGO REGION
20 Degree Radius

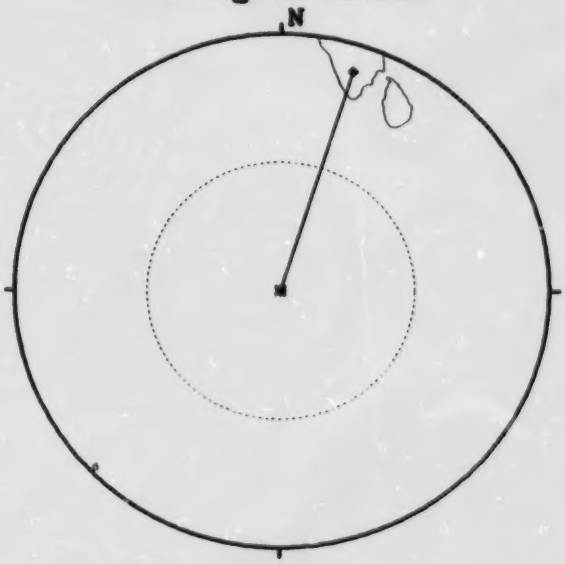
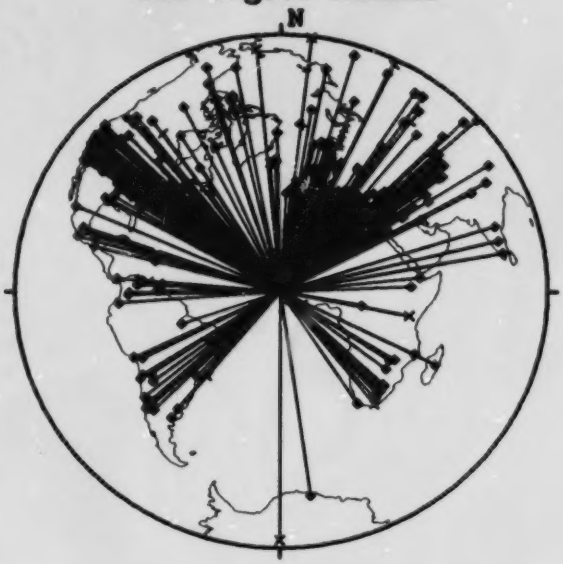


Figure 23

DEC 22, 1983 04:11:29
NORTHWEST AFRICA
105 Degree Radius



DEC 22, 1983 04:11:29
NORTHWEST AFRICA
10 Degree Radius

DEC 30, 1983 23:52:39
HINDU KUSH REGION
105 Degree Radius

DEC 30, 1983 23:52:39
HINDU KUSH REGION
10 Degree Radius

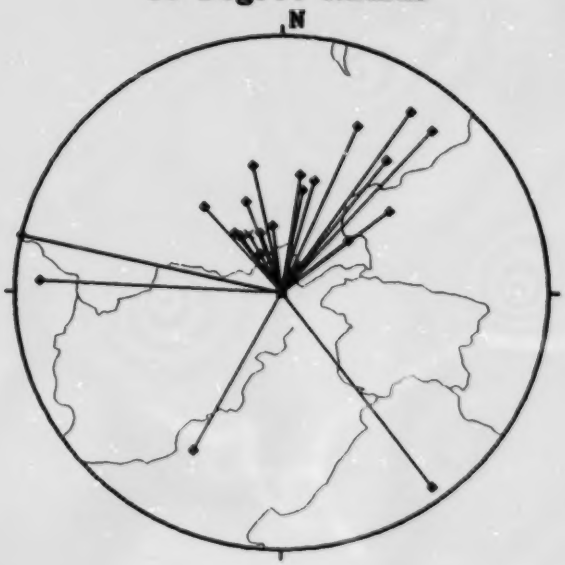
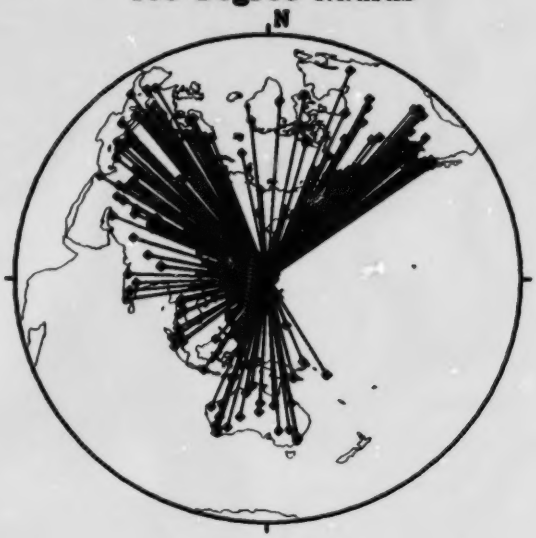
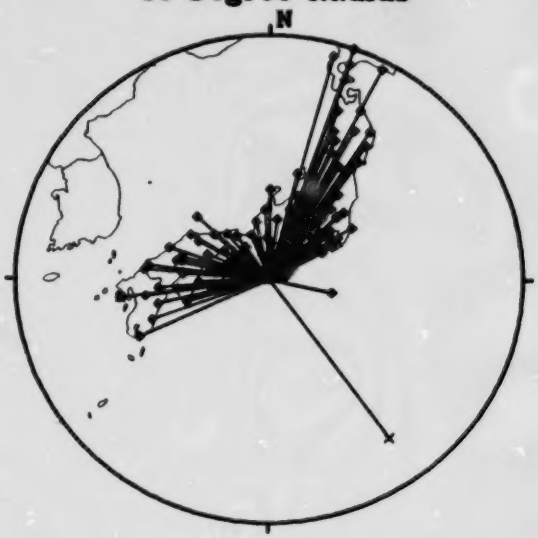


Figure 24

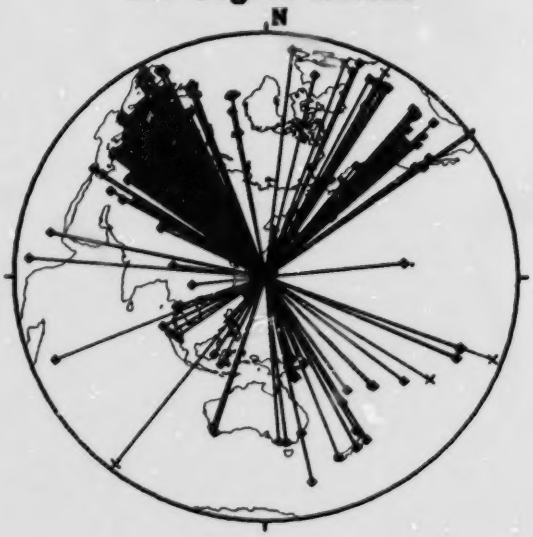
JAN 01, 1984 09:03:37
NEAR S. COAST OF SOUTHERN HONSHU
105 Degree Radius



JAN 01, 1984 09:03:37
NEAR S. COAST OF SOUTHERN HONSHU
10 Degree Radius



JAN 01, 1984 09:03:41
NEAR S. COAST OF SOUTHERN HONSHU
105 Degree Radius



JAN 01, 1984 09:03:41
NEAR S. COAST OF SOUTHERN HONSHU
10 Degree Radius

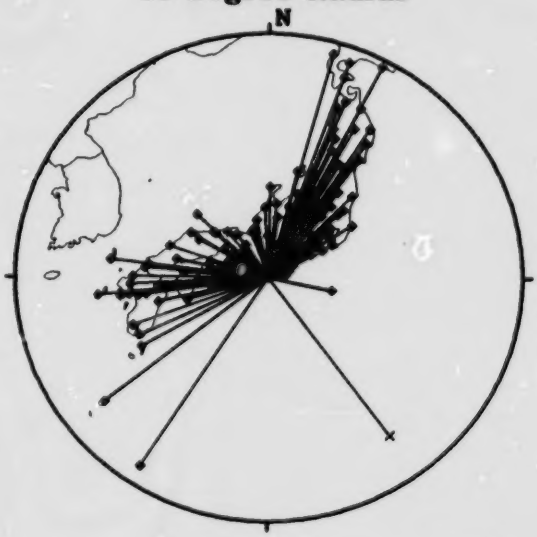
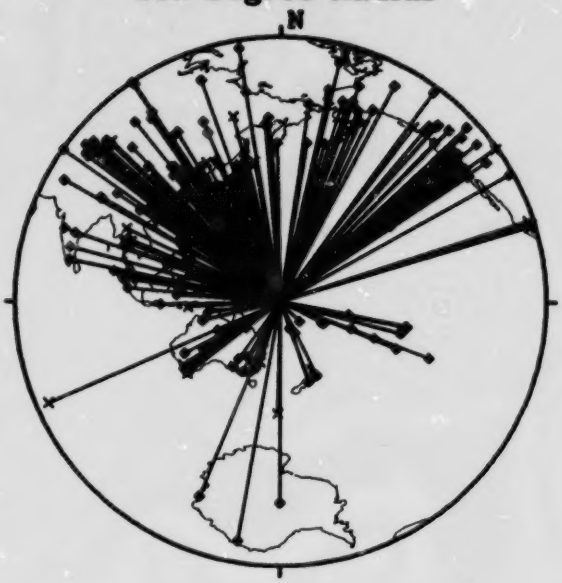
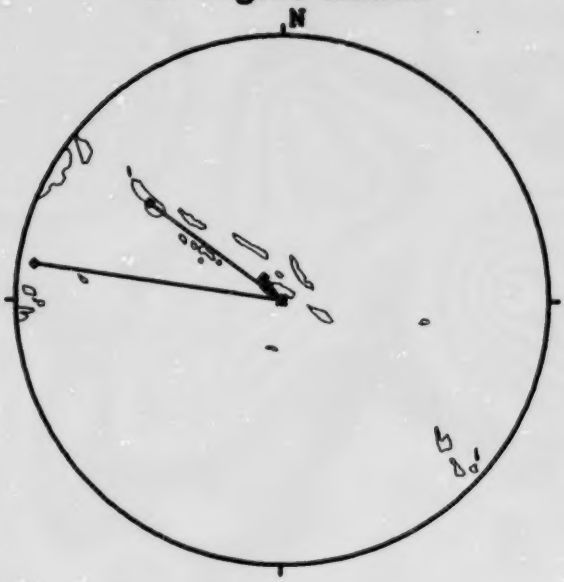


Figure 25

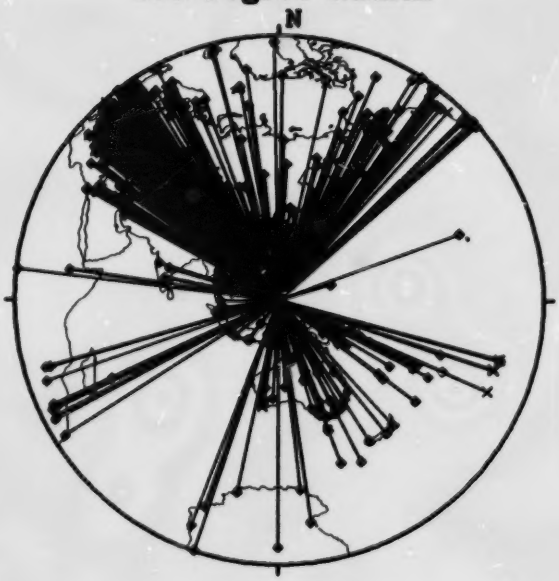
FEB 07, 1984 21:33:20
SOLOMON ISLANDS
105 Degree Radius



FEB 07, 1984 21:33:20
SOLOMON ISLANDS
10 Degree Radius



MAR 05, 1984 03:33:50
MINDANAO, PHILIPPINE ISLANDS
105 Degree Radius

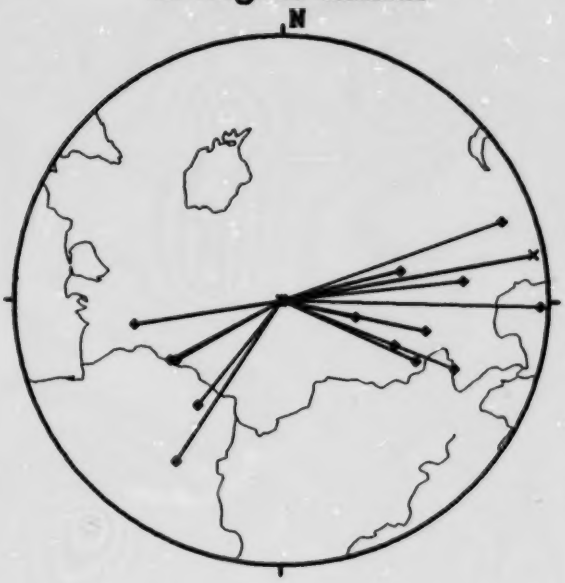


MAR 05, 1984 03:33:50
MINDANAO, PHILIPPINE ISLANDS
10 Degree Radius

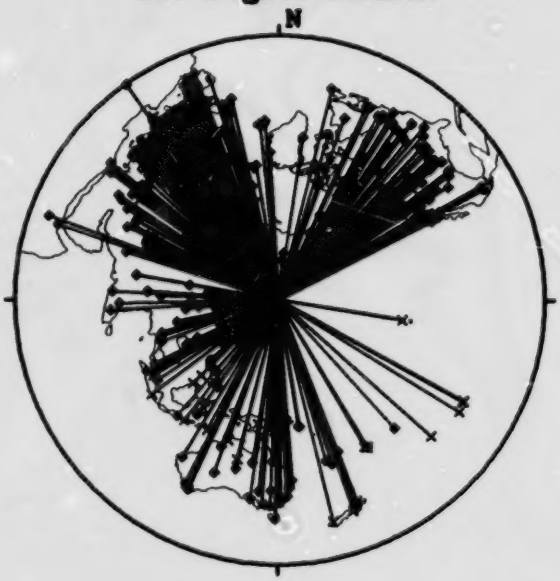
Figure 26

MAR 19, 1984 20:28:38
UZBEK SSR
105 Degree Radius

MAR 19, 1984 20:28:38
UZBEK SSR
10 Degree Radius



MAR 24, 1984 09:43:59
KURIL ISLANDS
105 Degree Radius



MAR 24, 1984 09:43:59
KURIL ISLANDS
10 Degree Radius

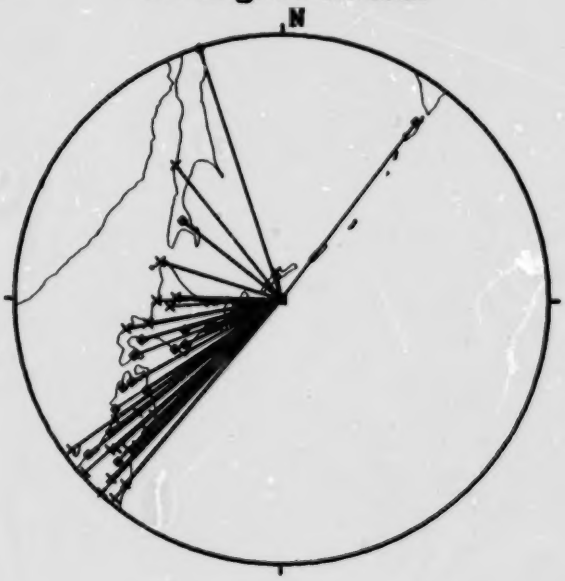


TABLE 4
EARTHQUAKE DATA REPORT

JAN 01, 1980 16h 42m 40.07± 0.08s
38.790 N ± 2.2km 27.785 W ± 1.2km
DEPTH = 10.0km (geophysicist)
6.0mb (91 obs.) 6.8Msz (13 obs.)
AZORES ISLANDS (405)
At least 56 people killed, 400 or more injured and extensive damage (VIII) on Terceira. At least 4 people killed, some injured and extensive damage on San Jorge. Damage also reported on Graciosa.

ADH	0.45	107	Pg	42	48.90	-0.3
HOR	0.71	249	Pg	42	54.50	0.4
PDA	1.97	121	Pn	43	09.40	-4.4X
TEN	14.07	134	iP	45	56.80	-4.8X
			e(S)	48	44.00	
LIS	14.55	84	Pc	46	02.50	-5.3X
			iPP	46	15.00	
			iS	48	28.50	
			LR	49	16.00	
PTO	14.90	75	P	46	05.00	-7.4X
			pP	46	06.70	
			S	48	33.80	
COI	15.02	78	P	46	07.30	-6.7X
			S	48	48.70	
MTE	15.69	78	P	46	15.00	-7.8X
			S	48	54.00	
FAR	15.74	90	P	46	18.40	-5.0X
			S	49	07.40	
SFS	17.25	91	iP	46	43.00	0.5
			i	46	49.50	
			iPP	47	03.00	
			i	47	40.00	
			iS	49	24.00	
VAL	17.96	37	ePc	46	50.00	-1.2
			S	49	56.00	
			LQ	50	31.00	
			LR	51	11.00	
GUD	18.27	77	iP	46	52.00	-3.3X
TOL	18.39	79	Pc	46	52.50	-4.2X
			iS	50	12.00	
MAL	18.59	89	iPd	46	59.80	0.7
LGR	19.51	71	iPd	47	09.40	-1.0
	1.3s	4.50nm			3.6mb X	
			iPP	47	25.40	
			iS	50	31.40	
STJ	20.13	304	eP	47	17.00	0.2
	1.4s	999.00nm			6.0mb	
DKM	20.68	39	eP	47	21.70	-0.8
	1.4s	2700.00nm			6.4mb	
DDK	20.72	38	eP	47	21.90	-1.0
DWU	20.76	37	eP	47	23.00	-0.4
	1.7s	5070.00nm			6.6mb	
ALI	21.32	83	iPc	47	29.00	-0.2
SCR	21.42	57	eP	47	31.00	0.9
LPF	21.42	56	eP	47	29.40	-0.7
EPF	21.63	70	eP	47	29.90	-2.4
	1.4s	1840.00nm			6.3mb	
GRR	21.64	55	eP	47	32.20	-0.1
	1.2s	990.00nm			6.1mb	
MFF	21.68	60	eP	47	31.70	-1.1
EBR	21.78	76	iP	47	33.60	-0.2
			iS	51	22.60	
			e	51	29.00	
			e	51	43.50	
FLN	21.98	54	eP	47	36.90	1.1
	1.4s	735.00nm			5.9mb	
LFF	22.04	65	eP	47	35.20	-1.2
	1.3s	1060.00nm			6.1mb	
MLS	22.17	70	iPd	47	38.00	0.3
SSC	22.17	55	eP	47	38.00	0.3
	1.0s	594.00nm			6.0mb	
LPO	22.34	65	eP	47	38.10	-1.3
	1.4s	1010.00nm			6.1mb	
WOL	22.42	47	Pd	47	42.80	2.8
	0.9s	244.00nm			5.7mb	
RJF	22.63	64	eP	47	40.60	-1.7
	1.4s	521.00nm			5.8mb	
LSF	22.77	61	eP	47	42.60	-1.0
CWF	22.98	44	Pd	47	47.30	1.8
	1.0s	221.00nm			5.6mb	
CAF	22.98	65	eP	47	44.10	-1.6
TCF	23.24	61	eP	47	47.70	-0.5
EAB	23.35	34	iPc	47	49.70	0.6
	1.3s	1040.00nm			6.2mb	
MZF	23.49	62	eP	47	50.00	-0.6
EAU	23.53	36	iPc	47	50.90	0.0
	1.3s	********nm			7.2mb X	
EBL	23.68	36	eP	47	52.40	0.0
	1.3s	876.00nm			6.2mb	
EDI	23.70	36	eP	47	53.10	0.6
			eS	52	21.00	
EBH	23.75	35	ePc	47	53.20	0.2
	1.3s	1240.00nm			6.3mb	
ELO	23.80	34	iPc	47	54.20	0.7
	1.3s	872.00nm			6.2mb	
DUR	23.82	39	Pc	48	00.00	6.3X
EGL	23.87	36	iPc	47	54.40	0.2
	1.3s	884.00nm			6.2mb	
AVF	24.09	61	eP	47	56.00	-0.4
	1.0s	203.00nm			5.7mb	
EDU	24.15	35	ePc	47	56.70	-0.2
	1.3s	748.00nm			6.1mb	
SSF	24.23	60	eP	47	57.40	-0.4
	1.3s	528.00nm			6.0mb	
SMF	24.40	61	eP	47	59.20	-0.3
	1.0s	531.00nm			6.1mb	
LOR	24.50	59	eP	48	00.00	-0.4
	1.4s	521.00nm			6.0mb	
SSB	24.76	64	ePd	48	02.50	-0.5
DOU	25.53	53	Pc	48	09.60	-0.6
			e	48	11.00	
			i	48	14.20	
			S	52	40.00	
			PcP	52	43.60	
UCC	25.57	51	P	48	11.00	0.5
			e	48	16.00	
			S	52	44.00	
REY	25.63	6	iP	48	13.70	2.8
LRG	26.03	69	eP	48	14.10	-0.8
	1.3s	555.00nm			6.1mb	
MBO	26.12	156	iP	48	15.10	-0.8
			i	48	18.60	
			i	48	24.60	
			i	48	35.60	
			i	48	40.10	
			i	48	49.10	
LMR	26.14	69	eP	48	15.10	-0.8
	1.5s	387.00nm			5.9mb	
SPF	26.27	68	eP	48	16.20	-0.9
	1.2s	315.00nm			5.9mb	
HAU	26.27	58	eP	48	15.50	-1.7
	1.0s	219.00nm			5.8mb	
WLF	26.42	55	ePc	48	18.00	-0.4
			S	52	51.00	
DBN	26.42	49	ePc	48	20.00	1.6
			i	48	31.00	
			iS	52	54.00	
MEM	26.53	52	P	48	19.60	0.2
			e	48	22.90	
			e	50	02.70	
			e	52	20.90	
BSF	26.55	59	eP	48	18.60	-1.2
	1.2s	450.00nm			6.0mb	
HEE	26.58	52	eP	48	21.00	1.1
			e	48	32.50	
BAF	26.68	59	P	48	19.70	-1.3
ECH	26.84	58	P	48	21.00	-1.4
			eS	52	58.00	
CDF	26.94	58	eP	48	22.10	-1.3
	1.3s	687.00nm			6.2mb	
WLS	26.99	58	P	48	22.50	-1.3
STR	27.29	57	P	48	24.50	-1.9
			i	48	28.20	
WTS	27.36	50	iPd	48	27.80	0.8
			i	48	35.30	
			iPP	49	11.80	
WIT	27.50	48	eP	48	30.50	2.2
			i	48	39.00	
ZUL	27.58	60	P	48	26.50	-2.7
BUB	27.75	59	P	48	28.50	-2.2
CVF	27.91	70	eP	48	30.90	-1.3
STU	28.25	57	ePd	48	35.50	0.4
	1.5s	222.00nm			5.7mb	
SAL	28.98	64	iP	48	42.00	0.3
OGA	29.34	61	eP	48	44.50	-0.7
GAP	29.39	60	eP	48	44.80	-0.7
KDS	29.55	148	iP	48	48.00	0.9
FIR	29.56	68	iPd	48	46.00	-1.0
			iS	53	30.00	
FUR	29.58	59	iPd	48	47.10	0.0
	1.3s	1110.00nm			6.5mb	
			eS	53	44.00	
GRF	29.68	56	eP	48	42.70	-5.3X
	1.4s	140.00nm			5.6mb	
	Z 12s	371.00um			7.2MszX	
			i	48	53.60	
			eS	53	45.50	
BER	29.93	33	iP	48	50.60	0.5
ZGN	29.99	83	eP	48	51.50	0.5
MOX	30.05	54	eP	48	51.00	-0.3
	3.4s	4750.00nm			6.7mb X	
	N 17s	374.00um				
HOF	30.17	55	iPd	48	51.70	-0.7
	1.0s	550.00nm			6.4mb	
BHG	30.63	60	eP	48	55.10	-1.3
WET	30.71	57	iPd	48	57.00	-0.1
RMP	30.83	71	ePd	48	58.00	-0.2
			iPP	49	50.00	
			iS	54	06.00	
CLL	31.01	53	ePc	48	58.00	-1.7
			i	49	02.00	
			i	49	06.00	
			e	49	39.00	
			PP	50	12.00	
			i	51	09.00	
			S	54	03.00	
			SS	55	27.00	
			SSS	55	44.00	
			e	57	36.00	
MIM	31.06	295	eP	48	59.20	-1.0
	1.0s	91.00nm			5.6mb	
KHC	31.16	57	P	48	59.60	-1.5
	1.1s	46.00nm			5.3mb	
			i	49	06.60	
			e	49	17.20	
			e	50	10.20	
			S	54	09.50	
TRI	31.25	64	iPd	49	00.70	-1.1
			i	49	07.50	
			iS	54	08.00	
AOU	31.27	70	eP	49	01.20	-1.0
			i	49	03.00	
BRN	31.30	51	iPd	49	06.50	4.3X
KON	31.48	36	iP	49	03.70	0.0
KMR	31.48	59	iPd	49	04.00	0.1
BRG	31.55	54	iPd	49	04.50	0.1
			PP	50	09.00	
			S	54	17.00	
			e	01	00.00	
COP	31.55	44	ePc	49	04.00	-0.4
	1.0s	360.00nm			6.2mb	
			iPP	49	55.00	
			iPPP	50	02.00	
			iS	53	48.00	
MOA	31.57	60	iPd	49	02.50	-2.2
			i	49	05.00	
			i	49	11.00	
			i	49	15.00	
			S	54	05.00	
			e	02	25.00	
LJU	31.77	63	eP	49	04.00	-2.5
			i	49	13.40	
			eS	54	13.40	
KTG	31.84	4	iPc	49	07.20	0.4
	1.3s	577.00nm			6.3mb	
			iPP	50	13.00	
			i	54	05.00	
			iS	54	21.00	
PRU	31.85	55	Pc	49	07.00	-0.1
DUI	32.15	71	eP	49	09.00	-0.8
NBO	32.60	34	P	49	15.20	1.7
	1.7s	38.50nm			5.1mb	
BNH	32.68	294	eP	49	13.30	-1.1
	1.2s	71.50nm			5.5mb	
FLR	32.95	289	eP	49	13.40	-3.3X
	0.8s	57.00nm			5.6mb	
VKA	32.95	59	eP	49	14.00	-2.7
			PP	50	28.00	
			i	54	39.00	
			e	02	00.00	
VIE	32.98	59	eP	49	14.00	-2.9
			PP	50	30.00	
			e	02	00.00	
WES	32.99	298	eP	49	16.10	-1.0
KSP	33.03	54	iPd	49	18.00	0.6
			i	49	24.50	
SOP	33.12	60	eP	49	16.00	-2.1
	1.0s	80.00nm			5.6mb	

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GDH		33.51	344	iPd	49 22.00	0.7
		1.2s	594.00nm			6.4mb
				iS	54 32.00	
				iSS	56 43.00	
HFS		33.57	37	iP	49 20.60	-1.4
		1.1s	101.00nm			5.7mb
	Z	15s	223.00um			7.0MszX
BLY		33.72	65	P	49 23.30	-0.2
OUA		33.75	291	eP	49 23.20	-0.5
		1.3s	149.00nm			5.8mb
UCT		33.76	290	eP	49 23.30	-0.5
		1.5s	315.00nm			6.0mb
MNT		34.26	296	eP	49 27.00	-1.1
		0.9s	66.00nm			5.5mb
PNY		34.28	295	eP	49 27.00	-1.3
SRO		34.30	60	iP	49 28.00	-0.4
	Z	11s	208.00um			7.1MszX
				e(PP)	50 48.00	
				e(S)	54 51.50	
				i	55 04.10	
BCT		34.66	289	eP	49 30.80	-0.7
		1.0s	97.50nm			5.6mb
FRB		34.71	329	ePd	49 36.00	4.3X
		1.2s	682.00nm			6.4mb
BUD		34.79	60	eP	49 31.00	-1.6
KRA		35.33	56	ePc	49 35.90	-1.3
		1.4s	814.00nm			6.4mb
	Z	12s	286.00um			7.2MszX
	N	12s	193.00um			
	E	12s	251.00um			
				i	49 43.60	
				iS	55 10.00	
UPP		35.36	38	iP	49 35.70	-1.6
		1.5s	399.00nm			6.1mb
				i	49 41.80	
				iS	54 56.00	
SPC		35.54	57	eP	49 41.00	1.8
	Z	10s	101.00um			6.9MszX
				i	49 47.20	
				i	51 09.00	
GPD		35.55	289	eP	49 38.20	-1.0
NIE		35.58	57	Pc	49 40.00	0.6
				i	49 47.00	
				i	49 55.00	
OTT		35.74	296	eP	49 40.00	-0.7
				pP	49 47.00	24kmX
JOS		35.76	58	eP	49 40.00	-0.9
		1.6s	250.00nm			5.8mb
BEO		36.03	64	P	49 43.00	-0.2
				iPP	51 07.50	
				iPPP	51 30.50	
				iS	55 30.20	
WAR		36.05	52	ePc	49 46.00	2.7
	Z	16s	190.00um			7.0MszX
				e	51 10.00	
				e	51 50.00	
				e	53 02.00	
				e	55 22.00	
				e	56 34.00	
TIM		36.45	63	P	50 02.00	15.3X
UZH		36.92	58	Pd	49 50.50	-0.1
				iS	55 33.00	
OHR		36.94	71	iP	49 51.40	0.5
				i	50 00.40	
				i(S)	55 46.40	
SKO		37.22	69	iPd	49 52.90	-0.4
				i	49 58.50	
				i	50 17.00	
				i	50 43.00	
				iPP	51 21.20	
				i	53 45.00	
DEV		37.60	62	Pc	49 58.00	1.6
UME		37.72	33	P	49 57.50	0.4
				i	50 04.70	
BMR		37.80	59	eP	50 00.00	2.0
LVV		37.98	56	Pd	50 00.00	0.5
				iS	55 53.00	
VAY		38.19	70	iPd	50 01.40	0.0
CANY		38.36	293	eP	50 02.70	-0.1
KIC		38.42	141	iPc	50 02.20	-1.4
SOF		38.45	67	iPd	50 05.00	1.4
DRA		38.73	64	eP	50 08.00	2.1
NUR		38.93	39	iP	50 07.80	0.5
		1.5s	280.00nm			5.7mb
				i	50 14.90	
				ePP	51 36.00	
				eS	56 04.00	
SJG		39.15	249	iP	50 10.00	0.3
		1.1s	633.00nm			6.2mb
	Z	20s	9.22um			5.6MszX
				iS	56 11.50	
				i	58 57.00	
CMP		39.17	63	eP	50 14.00	4.3X
				iPP	51 39.00	
				eS	56 20.00	
KIR		39.21	27	P	50 09.40	-0.2
				i	50 14.90	
TRO		39.47	24	iP	50 12.60	0.9
PVL		39.67	66	Pc	50 15.00	1.2
MLR		39.76	62	Pc	50 15.20	0.5
ATH		39.94	74	ePc	50 18.50	2.5
				ePP	52 00.00	
				eS	56 20.00	
MRG		39.96	288	iPc	50 17.60	1.4
BUC		40.07	64	eP	50 18.00	1.0
				eS	56 20.50	
KDZ		40.14	68	iPd	50 13.00	-4.7X
VRI		40.24	62	eP	50 19.00	0.6
BAC		40.24	61	eP	50 19.00	0.6
				e	52 32.00	
				e	56 14.00	
CLE		40.63	291	iPd	50 22.10	0.4
				S	56 22.00	
KUK		40.84	136	Pc	50 21.00	-2.6
KJF		41.00	33	iP	50 24.70	0.3
		0.8s	30.20nm			5.1mb
				i	50 32.50	
				ePP	52 04.00	
				eS	56 34.00	
BLA		41.03	285	iP	50 25.60	0.5
		1.2s	237.00nm			5.8mb
				eS	56 42.40	
TRN		41.04	236	eP	50 26.30	1.1
		1.2s	195.00nm			5.7mb
SOD		41.30	28	P	50 28.10	1.3
				i	50 33.00	
				eS	56 48.00	
CFR		41.35	62	eP	50 28.00	0.5
KIS		41.50	60	Pd	50 27.00	-1.7
				ipP	50 28.00	3kmX
				iS	56 34.00	
PUL		41.66	40	Pc	50 30.00	0.2
				isP	50 33.00	
DMK		41.84	67	eP	50 31.00	-0.6
AAM		41.96	293	ePd	50 33.60	1.1
KEV		42.12	25	iP	50 34.00	0.5
		0.6s	52.50nm			5.4mb
				i	50 38.90	
				ePP	52 16.00	
				eS	56 48.00	
EDC		42.32	70	iP	50 36.90	1.3
IZM		42.46	73	eP	50 38.20	1.4
AN7		42.50	291	eP	50 38.00	1.0
AN4		42.70	290	eP	50 39.10	0.5
AN12		42.71	291	eP	50 40.10	1.4
AN1		42.79	291	eP	50 40.30	0.9
IST		42.95	68	iPd	50 49.40	8.8X
				i	57 05.00	
				eS	00 32.00	
AN8		42.98	291	eP	50 41.80	0.9
ISK		42.99	68	eP	50 41.00	0.0
AN9		42.99	291	eP	50 42.10	1.0
AN10		43.04	291	eP	50 42.40	0.9
AN11		43.17	291	eP	50 43.10	0.6
KBS		43.25	10	iPc	50 44.80	2.2
				i	50 48.00	
				S	57 10.00	
ACM		43.44	294	eP	50 44.30	-0.3
				epP	50 52.60	28kmX
PRM		43.62	281	eP	50 46.20	0.0
APA		43.86	29	Pc	50 48.40	0.7
				eS	57 19.00	
TKL		44.10	284	iP	50 51.40	1.3
ALT		44.37	71	iPc	50 53.10	0.8
ORT		44.42	285	eP	50 52.90	0.3
CAR		44.84	242	iPc	50 56.00	-0.4
		1.2s	100.00nm			5.6mb
NAT		44.97	191	iPc	51 02.20	5.0X
ELL		45.00	74	iP	50 59.70	2.2
OBN		45.18	47	Pc	51 00.00	1.5
				iS	57 37.00	
RCC		45.19	260	eP	50 59.00	0.0
BCK		45.26	73	iPc	51 00.50	1.0
ALE		45.32	354	eP	50 59.00	-0.3
		1.3s	616.00nm			6.4mb
SIM		45.52	61	ePd	51 01.00	-0.4
				iS	57 38.00	
MOS		45.70	46	Pd	51 04.00	1.4
				iS	57 53.00	
ANTO		46.07	69	iPd-	51 06.50	0.7
KAS		46.29	66	iPd	51 08.00	0.4
RES		46.98	340	eP	51 13.00	0.5
		1.2s	348.00nm			6.3mb
TOV		47.33	244	iPc	51 18.20	2.1
		0.7s	115.00nm			6.1mb
ELC		47.60	288	ePd	51 17.30	-0.6
KVT		48.01	66	eP	51 20.50	-0.6
LGN		48.13	245	eP	51 12.50	-9.7X
GRT		48.13	287	eP	51 20.80	-1.2
				ipP	51 29.00	27kmX
FVM		48.23	290	eP	51 22.00	-0.8
	Z	22s	110.00um			6.8Msz
SDV		48.55	244	iPc	51 26.70	1.0
		0.8s	100.00nm			5.9mb
HLW		48.90	82	iPc	51 28.00	0.0
				iS	57 38.00	
UAV		49.11	244	eP	51 31.60	1.6
SOB		49.43	198	P	51 32.10	-0.1
				e	51 33.50	
				e	51 36.60	
POW		49.49	288	iPd	51 30.80	-1.7
SOB4		49.55	198	eP	51 22.50	-10.7X
SOC		49.77	62	Pd	51 34.00	-0.5
				iS	58 45.00	
SOB3		49.92	197	eP	51 33.40	-2.5
FFC		50.83	314	ePd	51 41.40	-1.1
		1.5s	630.00nm			6.3mb
KHE		51.34	12	Pc	51 47.30	1.2
				eS	58 58.00	
BCR		51.65	244	iP	51 46.00	-3.3X
PYA		51.89	60	P	51 52.80	2.0
				ipP	51 53.40	2kmX
				iS	59 05.20	
RLO		52.32	289	iPc	51 51.90	-2.2
CRO		52.83	287	eP	51 56.40	-1.5
		1.5s	816.00nm			6.4mb
TUL		52.99	290	ePd	51 57.10	-2.0
		1.3s	681.00nm			6.4mb
RAM		53.01	68	i(P)	51 59.00	-0.3
MBC		53.09	343	eP	51 58.30	-0.9
		1.3s	1080.00nm			6.6mb
FUQ		53.13	243	eP	52 02.00	1.3
EBS		53.30	302	P	52 02.00	0.7
LEN		53.64	64	Pd	52 06.00	2.0
GRO		53.92	60	Pd	52 06.00	0.3
				iS	59 44.00	
BOG		53.96	243	eP	52 06.50	-0.3
BNG		54.13	117	iPc	52 06.10	-1.5
		1.0s	34.80nm			5.3mb
				i	52 08.10	
				i	52 13.60	
				i	54 06.60	
				i	55 20.60	
				eS	02 06.60	
ERE		54.33	64	Pd	52 07.40	-1.5
CHN		54.81	245	iP	52 13.00	0.2
YKC		55.01	326	eP	52 08.50	-5.0X
		0.8s	32.00nm			5.4mb
YKA		55.06	326	P	52 13.50	-0.4
MAK		55.23	60	Pd	52 15.80	0.5
				iS	00 01.00	
KRV		55.42	63	Pd	52 16.00	-0.8
HKT		55.70	283	iP	52 18.00	-0.9
GRS		55.89	64	Pd	52 19.60	-0.8
				iS	00 00.00	
LD3		56.14	305	eP	52 20.50	-1.5
		1.0s	90.00nm			5.8mb
TAB		56.50	66	iPd	52 24.00	-0.8
ARU		56.91	41	eP	52 26.00	-1.3
SHE		57.02	62	Pd	52 30.00	1.8
SES		57.45	311	eP	52 31.00	-0.2
		1.6s	1070.00nm			6.6mb
EDM		57.67	315	ePd	52 31.00	-1.7
		1.6s	1100.00nm			6.6mb
GLD		58.10	298	ePd	52 34.80	-1.3
GOL		58.23	298	eP	52 35.70	-1.4
		1.0s	35.20nm			5.4mb
	Z	20s	37.50um			6.5Msz
LUB		58.51	290	eP	52 37.00	-1.9
PSO		58.67	243	eP	52 39.00	-1.6
LPS		58.94	263	eP	52 43.00	0.9

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			eS	00 58.00	
BDW	59.71	302	iPd	52 45.00	-2.3
	1.0s	42.40nm			5.5mb
			epP	52 54.10	30kmX
MSA	59.97	295	e(P)	52 49.50	0.1
			ipP	52 57.80	27kmX
INK	59.98	336	eP	52 47.00	-1.5
	1.9s	2190.00nm			7.0mb
COM	60.10	267	iP	53 49.00	58.8X
DC!	60.18	304	eP	52 59.70	9.2X
OAO	60.49	243	iPc	52 53.50	0.4
RXF	60.50	311	iPc	52 53.20	0.7
MSO	60.69	308	ePd	52 53.20	-0.6
	1.1s	246.00nm			6.2mb
	N 18s	175.00um			
	E 21s	161.00um			
LDM	60.79	310	iPc	52 54.40	0.0
NCE	60.81	242	eP	52 55.60	0.1
YKM	60.85	311	iPc	52 55.50	0.6
TEH	61.17	66	eP	52 54.50	-2.8
ALO	61.20	293	ePd	52 58.00	0.5
MOT	61.50	288	iP	52 58.20	-1.5
NEW	61.95	311	iP	53 01.00	-1.3
	Z 19s	265.00um			7.4Msz
	N 19s	105.00um			
	E 19s	180.00um			
NRI	62.43	21	Pc	53 06.40	1.3
KAT	62.89	60	Pd	53 09.50	1.0
			iS	01 43.00	
PNT	62.91	313	eP	53 07.50	-1.1
	1.8s	578.00nm			6.5mb
VHO	63.13	271	iP	53 08.00	-2.6
IIT	63.34	274	iP	53 16.00	3.8X
SVM	63.60	292	eP	53 13.00	-0.6
			ipP	53 21.00	26kmX
IIP	63.64	274	iP	53 19.00	4.9X
IIC	63.67	275	eP	53 13.20	-1.1
TAC	63.82	274	eP	53 23.00	7.7X
GCA	63.82	297	eP	53 14.20	-0.7
IIM	63.85	274	iP	53 18.00	2.5
BRV	64.43	344	e(P)	53 18.60	0.4
			e	53 27.20	
III	64.61	274	iP	53 20.00	-0.4
SHI	65.07	71	iPd	53 22.50	-0.7
			e(S)	02 14.00	
PGC	65.43	313	eP	53 20.50	-4.4X
TUC	65.64	293	eP	53 26.40	-0.3
	Z 18s	22.40um			6.4Msz
BMN	65.86	303	iPd	53 27.20	-0.9
	1.0s	57.60nm			5.7mb
			i	53 35.20	
PRN	65.98	299	eP	53 28.50	-0.4
ZOBO	66.52	223	P	53 32.10	-0.8
MAIO	66.57	62	Pd-	53 33.00	0.4
COL	66.57	336	eP	53 32.00	-0.1
			eS	02 26.00	
FBA	66.57	336	eP	53 32.50	0.4
	1.0s	50.00nm			5.7mb
LPB	66.72	222	Pc	53 33.00	-1.1
	1.5s	417.00nm			6.4mb
			i	53 35.00	
			S	02 28.00	
SIT	66.81	325	eP	53 38.50	4.9X
PNL	66.95	329	eP	53 35.90	1.3
TNP	67.09	301	ePd	53 34.10	-2.0
HUA	67.24	232	iPd	53 37.00	-0.4
IMA	67.50	339	eP	53 38.00	-0.1
MNV	67.53	302	iP	53 37.50	-1.2
ARO	67.80	93	iP	53 40.00	-0.6
			eS	02 57.20	
WCN	68.11	303	eP	53 41.80	-0.6
GLA	68.13	295	eP	53 42.00	-0.4
NNA	68.14	233	iPc	53 41.80	-0.8
	1.2s	284.00nm			6.3mb
			i	53 51.50	
			eS	02 42.00	
LM2	68.35	233	iP	53 46.50	2.7
ARE	68.51	225	eP	53 45.00	-0.2
			eS	02 47.00	
			eSS	07 01.00	
			eLO	10 33.00	
VPEM	68.64	299	e(P)	53 47.10	1.4
			i	53 53.70	
TIK	68.64	8	eP	53 45.00	0.1
MIN	68.74	305	iP	53 44.90	-1.4
KPK	68.97	304	eP	53 47.10	-0.5
			i	53 54.00	

ORV	69.11	304	iP	53 46.40	-2.0
WDC	69.21	306	iP	53 49.20	0.2
PMR	69.30	334	eP	53 49.00	-0.1
	1.0s	125.00nm			6.0mb
	Z 20s	52.00um			6.8Msz
	N 20s	22.50um			
	E 20s	44.00um			
JAS	69.30	302	iPd	53 48.80	-0.8
PEC	69.31	297	eP	53 49.00	-0.7
FRI	69.34	301	iP	53 46.70	-3.1X
NVS	69.70	35	P	53 51.20	-0.4
PAS	69.87	298	iPd	53 48.00	-5.1X
	2.5s	1500.00nm			6.7mb
	Z 20s	57.00um			6.8Msz
	N 20s	69.00um			
	E 20s	63.00um			
			ePP	56 24.00	
			eS	03 04.00	
FHC	70.00	307	eP	53 56.00	2.2
TAS	70.25	53	Pd	53 57.00	1.7
			iS	03 05.00	
ARN	70.36	302	eP	53 56.20	0.1
MHC	70.43	302	iPd	53 56.20	-0.4
PRI	70.45	301	iPd	53 56.50	-0.3
TTA	70.52	338	eP	53 56.40	-0.3
BKS	70.52	303	eP	53 58.20	1.2
	0.8s	34.00nm			5.5mb
	Z 20s	67.00um			6.9Msz
	N 20s	112.00um			
	E 20s	48.00um			
			e	54 05.00	
			e	54 46.00	
			ePP	56 38.00	
			eS	03 16.00	
			e	03 46.00	
			e	05 16.00	
NAI	71.25	108	iPc	54 07.00	5.1X
	2.6s	538.00nm			6.2mb
ILT	71.39	349	Pd	54 02.40	0.7
			isP	54 05.00	
			eS	03 21.00	
ELT	72.10	35	eP	54 05.00	-1.2
			eS	03 32.00	
GAR	72.23	54	P	54 07.00	-0.4
			isP	54 11.50	
SLA	72.38	216	Pd	54 08.20	-0.1
KUL	72.51	55	Pd	54 09.10	0.1
			iS	03 37.30	
FRU	72.59	49	eP	54 10.40	1.0
KDC	73.26	333	eP	54 14.50	1.6
ANT	73.88	220	eP	54 18.00	1.1
			iS	03 51.20	
KHO	73.90	55	eP	54 18.00	0.7
WIN	74.11	137	iPc	54 19.20	0.7
	1[illegible]	50.00nm			5.5mb
NRN	74.26	49	eP	54 21.00	1.5
PRZ	75.01	47	eP	54 25.00	1.4
QUE	75.15	63	eP	54 24.20	-0.4
			eS	04 05.00	
KSH	75.47	51	P	54 28.60	2.4
			P	54 32.50	
			S	04 02.60	
			ScS	04 40.60	
KRI	77.07	124	P+	54 36.00	0.6
YAK	77.90	11	Pc	54 38.70	-0.5
			eS	04 33.10	
SDN	77.92	335	eP	54 40.40	1.0
MTD	78.32	123	eP	54 41.00	-1.3
BAA	78.36	205	P	54 42.30	0.4
			S	04 42.70	
			LO	15 39.10	
			LR	19 01.10	
LPA	78.46	205	iPc	54 41.20	-1.3
	Z 20s	16.30um			6.4Msz
			iS	04 39.20	
SEY	78.66	360	Pc	54 43.40	0.2
			isP	54 47.40	
			eS	04 48.40	
BUL	78.88	127	eP	54 45.00	-0.4
TET	79.19	121	P	54 46.00	-0.9
			PP	57 49.00	
WMO	79.22	42	P	54 49.70	2.8
			P	54 52.70	
MOY	79.42	30	ePc	54 48.00	0.4
			eS	04 55.00	
CFA	79.51	214	Pc	54 49.50	1.1
			S	04 52.00	

			SS	09 52.00	
CLK	79.81	120	eP	54 51.00	0.7
MDZ	80.87	214	iP	54 56.90	1.3
			i	55 07.50	
ZAK	81.34	29	eP	54 58.00	0.2
			iS	05 15.10	
MGD	81.46	1	ePc	55 01.00	2.7
			isP	55 05.00	
PEL	81.91	215	Pc	55 02.00	1.0
SAN	82.15	215	P	55 03.50	1.2
			ipP	55 13.40	31kmX
			e	22 04.00	
NPA	82.35	116	P	55 07.00	3.4X
			PcP	55 14.00	
			S	05 38.00	
DDI	82.59	57	P	55 05.30	0.4
			S	05 17.10	
PRE	82.83	131	iPc	55 04.30	-1.8
	1.1s	101.00nm			5.9mb
	N 19s	11.70um			
	E 20s	11.30um			
LNV	82.91	215	P	55 06.50	0.4
			i	55 13.50	
NDI	83.10	59	P	55 07.50	0.1
			eSg	19 20.00	
PRY	83.30	132	eP	55 09.70	1.2
	0.7s	22.60nm			5.5mb
SUR	83.98	140	P	55 12.50	0.6
CER	84.03	142	e(P)	55 23.50	11.6X
	1.2s	62.50nm			
PKR	84.14	136	P	55 13.50	0.8
CNG	85.63	129	eP	55 22.00	2.0
	1.0s	29.30nm			5.4mb
			ePcP	55 30.00	
			eScS	05 45.00	
			eS	06 06.00	
			e()	26 26.00	
BOM	86.29	69	P	55 29.00	5.5X
			PP	58 46.00	
			PPP	00 53.50	
GRM	87.69	137	eP	55 39.10	9.1X
	1.3s	177.00nm			6.2mb
	Z 17s	53.70um			7.0MszX
KAD	88.30	69	Pd	55 34.00	0.6
VLV	88.60	213	Pd-	55 35.50	1.4
GOA	89.20	71	P	54 38.50	-59.1X
VAR	89.20	58	Pd	55 39.50	2.0
			PP	59 15.00	
LSA	91.23	50	P	55 50.90	3.4X
			P	55 53.90	
HYB	91.39	66	ePc	55 48.40	0.6
	1.6s	490.00nm			6.6mb
BOK	92.04	57	P	55 55.00	4.3X
BTO	92.09	31	P	55 51.50	0.7
			eP	55 54.50	
			PP	59 35.50	
			SKKS	06 35.50	
GBA	93.08	70	P	55 55.00	-0.5
	1.0s	18.00nm			5.5mb
LZH	93.13	37	P	55 58.10	2.3
			P	56 01.10	
			PP	59 43.60	
YSS	94.15	7	Pc	56 06.00	6.0X
CN2	94.30	19	P	56 04.80	4.0X
			PP	59 50.90	
CAL	94.63	56	P	55 48.00	-14.6X
			PPP	01 10.00	
			S	06 47.00	
			PS	07 43.00	
SHL	94.68	52	Pc	56 04.00	0.9
			S	07 18.00	
BJI	94.90	27	P	56 03.40	-0.2
			P	56 07.40	
			PP	59 55.40	
KOD	95.29	72	eP	56 08.00	1.9
	Z 20s	48.60um			7.0Msz
			eS	07 00.00	
MDR	95.48	69	P	56 09.50	2.9
			S	07 23.50	
VLA	96.41	15	Pc	55 59.80	-10.7X
XAN	97.17	35	P	56 15.30	1.2
			P	56 18.30	
			PP	00 15.30	
			SKS	07 02.30	
			eS	07 33.30	
CDU	97.60	40	P	56 18.60	2.5
			P	56 21.60	

TABLE 4-4

01d 18h

		PP	00	17.60		
		eS	07	39.60		
TIA	98.64	28	P	56	26.10	5.5X
		PP	00	25.90		
GYA	102.36	41	Pdiff	56	38.90	1.3
		P	56	40.90		
		PP	00	51.40		
WHN	102.52	33	Pdiff	56	39.60	1.6
		P	56	42.60		
		PP	00	53.60		
NJ2	102.99	29	Pdiff	56	45.30	5.3X
		PP	00	59.30		
MAT	103.93	12	ePdiff	56	49.00	4.8X
1.5s	61.10nm				6.2mb	
Z 19s	4.51um				6.0Msz	
SSE	104.71	27	Pdiff	56	50.70	3.0X
		eP	56	53.70		
SHK	104.83	17	ePdiff	56	52.70	4.5X
		e	01	14.70		
QZH	109.22	32	Pdiff	57	14.80	6.9X
		iPP	01	43.80		
ANP	110.17	30	Pdiff	57	19.00	6.7X
		S	11	12.00		
SNA	110.36	171	e(PKP)	01	07.00	-5.8X
TCU	110.77	31	PKP	02	04.30	49.3X
HEN	112.72	32	ePKP	01	29.00	10.3X
TSI	115.12	63	ePKPc	30	52.00	-31.6X
PIP	115.93	34	ePKP	01	33.40	8.4X
		eS	02	32.60		
PSI	115.94	63	ePKPd	01	31.50	6.3X
IPM	116.03	60	ePKPc	01	23.10	-2.3X
BAG	117.61	35	PKP	01	29.00	0.5
		e	02	38.00		
BAG	117.61	35	Pdiff	57	44.00	-1.7
MSP	117.67	35	ePKP	01	39.50	10.8X
		eS	02	40.90		
PGP	120.34	36	ePKP	01	41.50	8.0X
LGP	121.87	33	ePKPc	01	41.50	5.1X
		eS	02	50.20		
RUV	122.35	276	ePKP	01	47.00	9.7X
1.2s	30.00nm					
PPR	122.49	40	ePKP	01	44.50	6.9X
		eS	03	08.00		
MAW	125.43	152	ePKP	01	48.00	6.3X
CGP	126.48	35	ePKP	01	53.20	7.8X
GUMO	127.45	9	e(Pdif	58	32.00	2.7X
MPP	127.55	33	ePKP	01	55.50	7.9X
1.5s	320.00nm					
DAV	128.08	34	PKP	01	51.00	2.5X
		eS	04	00.00		
SPA	128.60	180	ePKPd	01	47.00	-1.1
1.0s	35.00nm					
Z 20s	25.60um				6.9Msz	
		i	04	08.20		
LEM	128.77	63	e(PKP)	01	53.00	3.0X
		eS	03	56.00		
MNI	132.70	39	e(PKP)	02	07.00	9.7X
AFI	139.72	298	ePKP	02	23.00	12.6X
		PP	05	00.00		
		e	06	00.00		
		e	12	10.00		
		e	17	36.00		
		SKKS	18	33.00		
		SS	23	44.00		
		SSP	24	08.00		
		SSS	28	45.60		
		LQ	40	00.00		
		LR	48	00.00		
SBA	140.35	185	PKP	02	06.00	-3.7X
		PP	05	10.00		
		PKS	05	37.00		
		e	24	00.00		
JAY	142.40	19	ePKP	02	18.20	2.9X
1.0s	85.90nm					
		eS	05	29.00		
MOM	143.10	8	ePKP	02	20.00	3.5X
KVG	143.93	2	ePKP	02	17.00	-0.8
RAB	145.56	0	PKPc	02	20.00	-0.6
WAB	145.97	15	PKP	02	21.50	-0.1
MDG	146.11	12	ePKP	02	16.00	-5.5X
MTN	148.10	42	ePKP	02	26.00	1.4
KNA	149.17	48	ePKP	02	31.00	4.7X
SVA	149.26	305	ePKP	02	33.50	7.2X
SWV	149.86	88	ePKP	02	32.00	5.1X
HNR	149.96	345	ePKP	02	34.00	6.5X
MUN	150.01	88	ePKP	02	32.00	4.9X
Z 20s	57.00um				7.4Msz	

N 20s	7.00um					
E 20s	40.00um					
PMG	150.40	10	ePKP	02	32.00	3.8X
Z 19s	41.00um				7.2Msz	
DRV	151.23	170	PKP	02	33.40	5.6X
LUG	153.36	326	PKPd	02	35.00	2.6X
PVC	154.76	322	PKP	02	35.00	0.8
WRA	155.68	45	PKP	02	41.00	5.5X
1.6s	61.10nm					
WB2	155.69	44	ePKP	02	39.40	3.9X
		i	03	09.00		
		ePP	06	44.70		
ASP	158.33	51	ePKP	02	44.00	5.2X
		e	03	18.00		
ISO	158.94	35	ePKP	02	45.00	5.5X
		e	07	01.00		
KOU	159.06	327	PKPc	02	40.40	0.8
NOU	159.55	319	PKPd	02	41.10	1.0
GNZ	159.88	262	ePKP	02	51.00	11.0X
WTZ	160.57	265	ePKP	02	48.00	7.3X
		e	03	31.00		
CTA	160.66	17	PKP	02	41.00	-0.3
		i	03	25.00		
		iPP	07	11.00		
		iSKKP	17	27.00		
		iSS	27	22.00		
KRP	161.69	265	ePKP	02	43.40	1.6
		e	03	36.00		
		e	07	22.00		
MNG	162.01	257	ePKP	02	48.00	5.9X
		e	03	36.00		
WEL	162.56	255	ePKP	02	48.00	5.4X
MJZ	165.36	243	ePKP	02	52.00	6.7X
BRS	168.62	357	PKP-	02	55.40	7.3X
		i	04	06.20		
		i	04	16.40		
		e()	06	53.00		
		e	07	39.00		
		ePP	07	51.40		
		e	09	08.00		
		eSKKKS	15	18.00		
TAU	174.46	140	ePKP	02	59.00	8.8X
		e	29	48.00		
		e	36	30.00		
TOO	174.56	79	ePKP	02	53.00	2.5X
		e	04	27.00		
SAV	175.17	129	ePKP	02	59.00	8.6X
CAN	175.69	38	ePKP	02	59.80	9.0X
		e	04	37.50		
		ePP	08	34.30		

S.D. = 1.2 on 354 of 451 obs.

& MAY 25, 1980 16h 33m 44.14s
37.598 N 118.829 W
DEPTH = 8.0km (geophysicist)
6.2mb (54 obs.) 6.2Msz (12 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GS>. Seven people injured, damage (VII) and rockslides in the Mammoth Lakes-Crowley Lake area, California. Rockslides also occurred in Yosemite National Park. Total damage estimated at 2 million dollars. Surface faulting and ground cracks observed in the epicentral area. Felt in an area of approximately 272,000 sq. km. of California and Nevada.

CLKR	0.01	152	iPd	33	45.63	-0.3
ORC	0.14	75	iPc	33	47.60	0.1
LMCR	0.16	325	iPc	33	48.25	0.5
MONR	0.46	5	iPc	33	53.53	0.0
BONR	0.55	49	iPc	33	54.90	-0.4
TIN	0.72	138	iPg	33	58.40	-0.3
FRI	0.93	229	iPc	34	01.60	-0.4
MNA	0.99	32	iPd	34	03.00	-0.2
RYN	1.06	13	iPc	34	04.30	-0.1
FERR	1.12	27	iPc	34	05.50	0.1
MMWM	1.17	294	iPd	34	05.90	-0.3
MBFM	1.22	274	iPc	34	06.80	-0.2
MSTM	1.29	284	iPd	34	07.57	-0.6
CWC	1.30	152	iP*	34	08.10	-0.5
JAS	1.32	286	iPc	34	08.42	-0.3
TNP	1.36	69	iP*	34	10.00	0.4
CRH	1.40	288	iPd	34	09.54	-0.4
MDYM	1.41	283	iPc	34	09.93	-0.2
BFC	1.43	335	ePc	34	11.20	0.6
MCUM	1.47	285	iPc	34	10.94	0.1
MRFM	1.49	296	iPd	34	11.14	-0.1
KVN	1.56	21	ePd	34	12.60	0.2
CFWM	1.57	152	ePd	34	13.30	0.8
BIS	1.66	337	ePd	34	14.73	0.9
MNHM	1.66	290	ePc	34	14.13	0.4
CGSM	1.71	145	ePd	34	14.92	0.4
CPTM	1.71	152	ePd	34	15.40	0.8
HWSM	1.72	150	iPd	34	15.30	0.6
BAVM	1.75	272	iPc	34	19.75	4.8
RVCM	1.76	154	ePd	34	16.02	0.9
BRMM	1.77	245	iPc	34	17.71	2.5
CSSM	1.79	151	ePd	34	16.35	0.8
ADWM	1.80	298	ePd	34	16.42	0.7
AODM	1.81	305	iPd	34	16.97	1.1
PARM	1.81	222	iPc	34	17.27	1.4
WCHM	1.82	160	iPa	34	17.15	1.0
WKTM	1.83	170	iPd	34	17.74	1.6
BMSM	1.83	240	iPc	34	17.44	1.3
VPEM	1.84	153	ePd	34	17.14	0.8
WCN	1.86	337	ePc	34	17.45	0.7
RCWM	1.90	150	iPd	34	17.86	0.7
WNMM	1.90	157	ePd	34	18.12	0.9
HCPM	1.92	259	iPc	34	18.86	1.4
ALAM	1.94	301	iPd	34	18.80	1.1
WHFM	1.94	168	iPd	34	19.72	2.0
ISA	1.95	171	iPd	34	19.51	1.5
WWPM	1.95	162	ePd	34	19.25	1.2
LLA	1.95	241	iPc	34	19.10	1.2
WORM	1.96	166	ePd	34	19.23	1.2
PRCM	1.96	228	iPc	34	18.98	0.9
PCRM	1.98	221	iPc	34	19.20	0.9
CMPM	1.99	264	iPc	34	19.58	1.1
WCOM	2.00	171	iPd	34	20.25	1.5
ARJM	2.00	304	ePd	34	19.47	0.9
HVC	2.01	233	iPc	34	19.92	1.2
BBGM	2.02	241	iPc	34	20.50	1.5
COSM	2.02	268	iPc	34	20.02	1.0
CLC	2.04	151	ePc	34	20.04	0.9
PCL	2.04	255	iPc	34	20.24	1.1
WSCM	2.04	158	ePd	34	19.70	0.5
EMT	2.04	243	iPc	34	20.45	1.3
OSR	2.05	249	iPc	34	20.52	1.2
PRI	2.07	226	iPnc	34	20.70	1.0
PSMM	2.08	223	iPc	34	20.89	1.0
PSRM	2.09	214	iPc	34	21.11	1.2
EKH	2.09	244	iPc	34	21.30	1.4
MOP	2.09	229	ePc	34	21.02	1.0
WHVM	2.10	173	iPd	34	21.85	1.7
SBT	2.10	240	iPc	34	21.47	1.4
VPK	2.10	334	ePc	34	21.60	1.3
AGIM	2.10	307	ePd	34	20.95	0.9
LTR	2.10	251	ePc	34	21.30	1.2
LRV	2.11	237	iPc	34	21.24	1.1
AFHM	2.11	314	ePd	34	21.64	1.3
TRC	2.11	219	iPc	34	21.48	1.2
WLPM	2.11	171	iPd	34	22.00	1.5
BTW	2.11	233	iPc	34	21.35	1.1
HJSM	2.12	249	iPc	34	21.59	1.3
CMMM	2.12	267	iPc	34	21.51	1.0
PTV	2.12	226	iPc	34	21.23	0.8
WCXM	2.13	152	iPd	34	20.93	0.4
PKF	2.13	217	iPc	34	21.37	0.8
PMRM	2.13	212	iPc	34	21.60	1.0
GRX	2.14	18	ePd	34	20.75	0.0
SFL	2.14	254	ePc	34	21.92	1.3
BSBM	2.14	247	ePc	34	21.92	1.2
PSTM	2.14	219	ePc	34	21.66	1.0
BVL	2.15	242	iPc	34	22.04	1.3
GHS	2.15	257	iPc	34	22.10	1.3
GHC	2.15	215	iPc	34	21.25	0.5
BSCM	2.15	244	iPc	34	22.15	1.4
WBMM	2.15	175	iPn	34	22.64	1.6
ADC	2.16	309	ePd	34	21.74	0.9
BLRM	2.16	245	iPc	34	22.45	1.5
PHAM	2.16	216	iPc	34	21.77	0.8
ARN	2.17	264	iPc	34	22.11	1.1
AHRM	2.17	306	iPd	34	22.50	1.5
PHGM	2.17	218	eP	34	21.85	0.7
BPIM	2.17	240	iPc	34	22.03	0.9
BSLM	2.17	249	iPc	34	22.47	1.4
ARRM	2.18	303	ePc	34	22.52	1.3
PAGM	2.18	212	iPc	34	22.13	0.8
HKRM	2.19	252	iPc	34	22.79	1.5
PKH	2.19	251	ePc	34	22.85	1.6

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CDC	2.19	256	ePc	34	22.79	1.4	ADL	3.24	159	ePd	34	37.22	0.8	POW	22.13	85	eP	38	40.60	-1.2
HSPM	2.19	258	iPc	34	22.94	1.5	SDW	3.30	154	ePd	34	37.64	0.3	SIT	22.34	336	eP	38	43.80	0.2
BCGM	2.20	247	iPc	34	22.73	1.3	BLU	3.31	164	ePd	34	38.21	0.7				e	38	52.30	
WJPM	2.20	173	iPd	34	23.13	1.5	TWL	3.32	177	ePc	34	40.02	2.6	FVM	22.42	80	ePc	38	44.60	0.0
LRC	2.23	233	iPc	34	22.90	1.0	SI2	3.39	180	ePd	34	39.83	1.4				i	38	51.50	
MNR	2.23	271	ePc	34	22.77	0.8	MWC	3.42	169	ePd	34	40.32	1.2				e	45	42.00	
BMCM	2.23	246	iPc	34	22.85	0.8	RDM	3.46	157	ePd	34	40.00	0.5	ELC	23.47	82	eP	38	54.40	-0.4
WKR	2.24	218	iPc	34	22.86	0.8	ROD	3.47	148	iPd	34	39.71	0.1	GRT	23.50	84	eP	38	57.30	2.1
CTLM	2.24	272	ePc	34	23.07	1.0	MIN	3.49	323	ePnd	34	41.00	1.0				i	39	04.50	
CBSM	2.24	276	iPc	34	23.47	1.3	PEM	3.51	167	ePd	34	41.62	1.6	CHI	24.29	70	P	39	04.00	1.2
PMCM	2.24	214	iPc	34	22.91	0.8	SS2	3.55	162	ePd	34	41.42	0.8	IIC	24.62	131	iP	39	08.50	2.0
SAO	2.25	249	iPnc	34	23.20	1.0	SIL	3.63	153	ePd	34	42.48	0.5	TAC	24.94	131	iP	39	18.00	8.5
PIVM	2.25	222	iPc	34	23.04	0.8	PCF	3.64	166	ePc	34	43.80	1.9	IIM	25.00	131	iP	39	10.00	-0.2
MHC	2.25	264	iPnc	34	23.60	1.2	GAV	3.72	163	ePd	34	44.14	0.9	III	25.58	133	iP	39	17.50	2.0
BMHM	2.26	247	iPc	34	23.10	0.7	HDG	3.77	146	iPd	34	43.80	-0.1	ACM	25.62	68	eP	39	14.50	-1.0
CDVM	2.27	270	ePc	34	23.05	0.6	RVR	3.79	161	ePd	34	45.00	0.9	PNL	25.72	336	eP	39	18.60	2.3
ADR	2.27	260	ePc	34	24.00	1.5	RMR	3.84	151	ePd	34	45.17	0.2	IIT	25.76	130	iP	39	21.50	4.2
HSFM	2.27	251	iPc	34	23.79	1.2	RCH	3.85	148	ePd	34	44.51	-0.5	FCC	26.56	29	eP	39	25.00	1.0
SHG	2.27	239	iPc	34	23.57	1.0	VPD	3.87	167	ePd	34	46.50	1.2	AN9	26.70	73	Pd	39	24.50	-1.1
APRM	2.27	305	ePd	34	23.74	1.2	COD	3.88	164	ePd	34	46.34	0.8	AN10	26.74	73	iPd	39	25.20	-0.7
DIXR	2.28	15	ePd	34	22.60	-0.1	LED	3.91	142	ePd	34	45.23	-0.6	AN8	26.91	74	Pd	39	26.10	-1.3
PSAM	2.28	227	ePc	34	23.58	0.9	MRVC	3.92	150	ePd	34	47.40	1.3	AN4	27.20	74	eP	39	29.00	-1.1
ARWM	2.28	307	ePc	34	23.47	0.8	PEC	3.94	159	ePn	34	47.00	0.8	AN3	27.24	73	Pd	39	29.80	-0.6
CSAM	2.28	273	ePc	34	23.70	1.0	WWR	4.01	153	ePd	34	48.01	0.8	AAM	27.25	69	P	39	30.80	0.3
CMNM	2.29	272	ePc	34	21.40	-1.3	VG2	4.10	156	ePd	34	49.51	1.1				S	44	10.00	
FRP	2.29	249	iPc	34	23.63	0.8	WDC	4.15	317	iPnd	34	49.70	0.6	UTO	27.34	70	iPc	39	30.80	-0.5
CSR	2.29	255	iPc	34	23.63	0.9	TPC	4.15	146	ePd	34	49.26	0.0	ORT	27.62	83	eP	39	33.60	-0.4
COE	2.29	262	ePc	34	24.30	1.5	SPM	4.18	137	ePd	34	48.57	-1.1	VHO	28.09	130	iP	39	40.00	1.5
HBTM	2.30	252	iPc	34	24.20	1.3	INS	4.24	149	ePd	34	50.32	-0.3	TKL	28.10	83	eP	39	38.50	0.1
JHC	2.30	244	iPc	34	23.53	0.6	SNS	4.29	166	ePd	34	51.77	0.6	CLE	28.88	71	iPc	39	56.20	11.0
AFRM	2.32	302	ePc	34	24.82	1.7	KEE	4.33	155	ePd	34	52.39	0.5				S	44	42.00	
ANZ	2.32	253	iPc	34	24.08	0.9	PNMC	4.37	145	ePd	34	51.61	-0.9	PRM	29.65	86	eP	39	51.90	-0.4
HGWM	2.33	256	iPc	34	24.09	0.8	CTW	4.59	147	ePd	34	55.06	-0.4				e	49	26.00	
CBO	2.33	259	ePc	34	24.34	1.0	TTM	4.60	134	ePd	34	54.75	-0.9	KDC	29.85	323	eP	39	56.50	2.7
HJGM	2.33	251	ePc	34	24.08	0.7	VSTC	4.62	163	ePd	34	56.43	0.6	MRG	30.29	74	iPc	39	57.40	-0.5
MHR	2.34	265	ePc	34	24.81	1.3	HOT	4.65	156	ePd	34	56.93	0.4				eS	46	26.00	
BSRM	2.34	247	iPc	34	24.90	1.3	COY	4.70	153	ePd	34	56.48	-0.5	BLA	30.37	79	iPd	39	58.70	0.0
YEG	2.34	203	iPc	34	24.57	1.0	BC2	4.79	144	ePd	34	57.21	-1.3				iS	45	08.00	
ALNM	2.35	305	ePc	34	24.80	1.2	KNB	4.82	95	eP	34	57.80	-1.2	JSC	30.47	85	eP	39	58.50	-1.0
CBC	2.35	254	iPc	34	24.69	1.0	LTM	4.86	138	ePc	34	57.38	-2.0	PMR	30.51	332	eP	40	01.90	2.3
SVC	2.36	263	ePc	34	25.20	1.4	JULC	4.89	158	ePd	34	59.97	0.2		1.0s	62.50nm			5.4mb	
CVR	2.37	267	ePc	34	24.92	1.0	RVS	4.99	134	ePd	35	00.19	-1.0		Z 20s	5.20um			5.2Msz	
MTC	2.37	276	ePc	34	25.20	1.2	SUP	5.24	151	ePc	35	04.04	-0.7	INK	31.81	350	ePc	40	11.70	0.8
DIL	2.37	252	iPc	34	24.47	0.5	MSU	5.33	78	eP	35	05.00	-1.2		2.0s	811.00nm			6.3mb	
JRRM	2.37	258	iPc	34	24.78	0.8				i	35	06.50		COL	32.23	337	eP	40	16.00	1.3
PKC	2.37	255	ePc	34	24.97	1.0	DUG	5.36	59	iP	35	06.50	0.0				eS	45	40.00	
PSHM	2.38	213	ePc	34	25.00	1.0	GLA	5.59	143	ePd	35	07.81	-1.9	FBA	32.23	337	iPc	40	16.30	1.6
CVLM	2.39	272	ePc	34	25.67	1.5	GCA	5.80	94	eP	35	12.80	0.1	OTT	32.90	62	eP	40	25.00	4.4
DOO	2.39	274	ePc	34	25.38	1.2				i	35	17.30		SDN	33.11	316	e(P)	40	32.60	10.2
AVRM	2.39	307	ePc	34	24.35	0.2	MFW	8.30	2	eP	35	50.50	2.8	TTA	33.93	330	eP	40	30.60	1.0
JSTM	2.40	262	ePc	34	25.13	0.9	TUC	8.45	126	eP	35	49.50	-0.4	SOR	34.07	105	eP	40	33.00	1.9
PRS	2.40	239	iPnc	34	25.30	1.0	DCI	8.64	40	eP	35	55.50	2.9				eS	46	07.00	
PJLM	2.40	232	iPc	34	25.45	1.1	BDW	8.77	51	iPc	35	55.00	0.6	MNT	34.36	62	eP	40	32.50	-0.9
HCOM	2.40	254	ePc	34	25.05	0.7	LON	9.41	347	iPd	36	07.30	4.3	IMA	34.86	336	iPc	40	39.60	2.0
CPNM	2.41	272	ePc	34	25.68	1.2		2.0s	1510.00nm			7.1mb		LPS	35.10	123	eP	40	45.20	5.1
MSJ	2.42	269	ePc	34	25.73	1.1	SVM	9.87	116	eP	36	11.50	2.0		1.7s	365.00nm			6.0mb	
CACM	2.42	256	ePc	34	25.58	1.0	MSO	9.91	20	iPc	36	11.50	1.6				eS	46	15.00	
ABJM	2.43	311	eP	34	25.48	0.7		1.3s	2130.00nm			7.4mb X		HDM	35.59	69	eP	40	43.30	-0.6
JFS	2.43	157	ePd	34	25.14	0.2	MSA	10.24	90	eP	36	15.10	0.2	HVO	36.51	251	eP	40	52.00	-0.1
EUC	2.44	258	ePc	34	25.67	0.8	ALQ	10.33	101	eP	36	15.00	-0.9				eS	46	50.00	
JHLM	2.44	259	ePc	34	25.83	0.8	GMW	10.36	345	eP	36	18.40	2.4	KIP	37.42	256	eP	41	05.00	5.5
AMC	2.44	261	ePc	34	25.83	0.9				i	36	23.20					eS	47	08.00	
CRGC	2.46	197	ePc	34	26.36	1.1	NEW	10.73	6	ePd	36	23.40	2.2	MIM	37.60	62	eP	41	00.20	-0.6
BMTC	2.46	176	iPd	34	27.29	1.9	GOL	10.73	75	eP	36	23.00	1.5	MBC	38.74	360	ePc	41	11.40	1.4
HCZM	2.47	255	ePc	34	25.90	0.6	LDM	11.15	12	iPd	36	30.40	3.6		1.7s	981.00nm			6.2mb	
BPCM	2.47	246	ePc	34	25.92	0.6	YKM	11.48	10	iPd	36	35.00	3.5	RES	38.86	10	eP	41	12.00	1.0
TMB	2.57	193	ePd	34	28.01	1.2	PGC	11.55	345	eP	36	33.50	1.3		1.2s	176.00nm			5.6mb	
GCC	2.59	258	iPnc	34	27.50	0.5	RXF	11.58	12	iPd	36	35.60	2.8	SCH	38.91	47	ePd	41	11.20	-0.5
BKS	2.71	277	iPn	34	29.60	0.8	PNT	11.73	357	eP	36	38.00	3.3		0.9s	157.00nm			5.7mb	
FTC	2.72	181	ePd	34	30.74	1.7	LDJ	12.80	42	ePc	36	49.60	0.5	FRB	39.66	32	eP	41	18.00	0.3
ABL	2.76	187	ePd	34	30.65	0.9				i	36	56.20		RCC	41.27	103	P	41	34.00	2.5
GSC	2.81	144	ePd	34	30.30	0.0	SES	13.96	21	eP	37	06.00	1.6	ADK	42.38	309	e(P)	41	40.60	0.3
PKM	2.81	197	iPc	34	31.09	0.7	MOT	14.07	115	iP	37	10.10	3.9				e	41	43.40	
PCC	2.83	269	iPnc	34	30.80	0.4	LUB	14.37	101	eP	37	12.50	2.5				e	41	48.60	
ORV	2.86	314	iPnd	34	31.00	0.0	PHC	14.47	338	eP	37	20.00	9.0	ILT	44.50	332	Pc	41	59.30	2.0
SWM	2.88	176	ePd	34	33.38	2.1	EBS	15.14	55	P	37	24.40	4.5				esP	42	04.00	
EUR	2.93	49	iPn	34	32.20	0.1	EDM	16.08	12	eP	37	32.50	0.4				iS	48	39.00	
LHU	2.94	173	ePd	34	33.62	1.5	JCT	17.28	109	iP	37	50.40	3.1	GDH	46.69	26	ePd	42	16.00	1.4
RYS	2.98	188	ePd	34	34.37	1.6				iS	41	12.00					iPP	44	07.00	
FLSC	3.00	151	ePd	34	33.52	0.3	TUL	18.53	88	iPc+	38	03.20	0.4				iS	49	15.00	
SBB	3.02	164	ePc	34	32.84	-0.3		2.0s	5140.00nm			6.4mb					iSS	52	30.00	
BMN	3.09	23	iPn	34	34.00	-0.3		Z 22s	70.70um					STJ	48.32	56	eP	42	26.00	-1.7
LJB	3.10	165	ePd	34	35.06	0.7				eS	41	41.50		ALE	48.69	8	eP	42	30.00	-0.2
LRRC	3.13	168	ePd	34	35.82	1.1				e	01	00.00			1.3s	167.00nm			5.9mb	
ECF	3.14	184	ePd	34	36.68	1.8	RLO	19.09	87	iPc	38	09.30	-0.3	SJG	49.78	98	eP	42	37.50	-1.9
IRC	3.22	174	ePd	34	37.66	1.6	HKT	20.55	105	eP	38	27.00	1.3		1.0s	140.00nm			5.9mb	
JNH	3.22	167	ePd	34	36.11	0.0	FFC	20.63	29	eP	38	24.00	-2.4		Z 20s	17.70um			6.1Msz	

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                 i     42 47.00
                 eS    49 56.00
LGN    50.65 110 eP    42 55.00    9.0
UAV    51.75 111 eP    43 01.50    6.9
TOV    51.99 109 eP    42 58.20    2.0
FUQ    51.99 117 eP    42 59.00    2.4
BOG    52.35 118 eP    43 01.50    2.2
BOCO   52.39 118 e(P)  43 00.80    1.1
PSO    52.61 123 eP    43 02.00    0.7
CAR    53.70 106 eP    43 07.50   -1.5
CUM    55.84 104 eP    43 19.30   -5.2
SEY    56.78 327 Pc    43 31.40    0.7
                 isP   43 37.00
                 eS    51 30.00
PET    56.87 314 Pd    43 32.00    0.6
                 esP   43 36.00
                 eS    51 25.00
KTG    57.31  23 iPc   43 34.70    0.3
       2.0s   565.00nm          6.3mb
                 i     44 00.00
                 iS    51 40.00
MGD    58.45 324 ePc   43 43.00    0.5
                 esP   43 44.50
                 eS    51 50.00
RUV    58.97 213 eP    43 53.00    6.5
       1.2s   190.00nm          6.1mb
VAH    59.12 213 eP    43 54.00    6.5
       1.2s   155.00nm          6.0mb
SKR    59.20 312 eP    43 46.00   -1.8
REY    59.74  30 eP    43 58.20    6.9
KBS    60.28  10 iPd   43 56.40    1.5
                 i     44 00.00
AKU    60.54  28 iP    43 58.60    1.8
       1.9s   1000.00nm          6.6mb
     Z  16s     9.50um          6.0MszX
     N  18s    25.00um
     E  18s    15.00um
                 i     44 03.60
TIK    61.27 340 Pc    44 01.30   -0.4
                 isP   44 06.50
                 eS    52 25.00
KHE    62.02   1 Pc    44 08.00    1.3
                 eS    52 32.00
TVO    62.08 213 eP    44 19.00   11.2
       1.2s   170.00nm
NNA    63.11 133 P     44 16.00    1.4
YAK    66.51 331 Pc    44 36.70    0.7
                 eS    53 31.20
KUR    66.58 310 eP    44 37.00    0.2
                 eS    53 36.00
YSS    68.71 313 ePd   44 52.00    1.9
                 esP   44 56.10
                 eS    53 57.00
ARE    69.79 131 eP    44 57.00   -0.5
                 eS    54 20.00
                 eLQ   02 40.00
KEV    70.08  12 eP    44 59.00    0.9
                 i     45 04.60
                 eS    54 12.00
                 ePS   54 44.00
KIR    70.50  15 P     45 01.00    0.2
                 i     45 02.20
                 i     45 06.80
                 i     13 04.70
KMU    71.17 309 eP    45 06.30    1.0
VAL    71.31  38 ePd   45 07.00    1.1
                 PP    47 52.00
                 S     54 32.00
                 SS    59 12.00
                 SSS   02 33.00
                 LR    07 26.00
EAB    71.36  32 eP    45 05.90   -0.2
       0.9s    22.00nm          5.3mb
AFI    71.36 235 eP    45 12.00    5.2
                 S     54 35.00
                 SS    58 52.00
                 SSS   02 40.00
                 e     06 00.00
ELO    71.44  32 eP    45 06.90    0.2
       0.9s    52.00nm          5.6mb
NRI    71.48 350 Pc    45 06.00   -0.7
                 isP   45 12.00
EBH    71.67  32 eP    45 08.20    0.2
       0.9s    52.00nm          5.6mb
DMU    71.68  35 iPc   45 09.50    1.3
       1.0s    58.00nm          5.6mb
ZOBO   71.70 128 P     45 08.80   -0.6
SAP    71.71 310 eP    45 10.00    1.5
DCN    71.87  36 iPc   45 10.90    1.7
       1.0s    54.00nm          5.6mb
LPB    71.92 129 P     45 10.00   -0.5
                 iS    54 41.00
EDI    72.02  32 eP    45 10.90    0.8
       0.9s    40.00nm          5.5mb
SOD    72.12  13 eP    45 11.00    0.5
                 i     45 17.10
EBL    72.18  32 eP    45 11.30    0.2
       0.9s    32.00nm          5.4mb
BER    72.19  26 iP    45 13.00    2.0
DLE    72.24  36 eP    45 12.20    0.7
EGL    72.25  32 eP    45 11.80    0.3
       0.9s    29.00nm          5.4mb
DDK    72.27  36 eP    45 13.20    1.6
DKM    72.39  36 iPc   45 13.80    1.4
       1.0s    56.00nm          5.6mb
EKA    72.42  33 Pc    45 12.30   -0.2
       0.9s    15.00nm          5.1mb X
NAO    73.67  23 P     45 20.40    0.7
       1.9s   600.00nm          6.3mb
UME    73.85  18 P     45 20.40   -0.2
                 i     45 26.20
HPK    74.01  33 P     45 22.60    0.9
BOD    75.06 334 eP    45 28.00    0.2
HFS    75.09  22 P     45 28.70    0.8
       1.0s    46.00nm          5.5mb
     Z  24s    15.80um          6.2MszX
KJF    75.15  14 iPd   45 29.00    0.8
       1.1s    38.10nm          5.3mb
     Z  20s    17.50um          6.4Msz
     N  20s     9.60um
     E  20s     7.50um
                 i     45 35.00
                 ePP   48 26.00
ANT    76.09 135 P     45 40.00    6.0
                 S     55 28.00
                 ScS   55 48.00
                 SS    00 54.00
TSK    76.46 305 eP    45 36.00   -0.2
UPP    76.47  21 P     45 36.10    0.4
                 i     45 41.80
                 iS    55 24.00
DDR    77.18 306 eP    45 41.40    1.1
VLA    77.19 315 eP    45 39.00   -1.0
SRY    77.37 305 eP    45 41.70    0.5
MAT    77.49 306 eP    45 43.00    1.1
       1.6s   307.00nm          6.2mb
     Z  20s     3.19um          5.6Msz
                 eS    55 33.00
OYM    77.50 305 eP    45 42.10    0.1
NUR    77.75  18 iP    45 44.80    2.0
       1.0s   640.00nm          6.7mb
     Z  22s     4.81um          5.8Msz
STS    77.90  45 eP    45 44.50    0.5
FLN    78.11  37 iPc   45 46.30    1.3
       2.3s  1420.00nm          6.7mb
GRR    78.20  37 iPc   45 46.90    1.4
       2.3s  1640.00nm          6.7mb
DBN    78.22  31 iPd   45 48.00    2.5
     Z  18s     8.80um          6.1Msz
                 i     45 54.00
                 iPP   48 49.00
                 iS    55 52.00
COP    78.23  26 ePd   45 47.00    1.5
     Z  20s    16.00um          6.3Msz
                 iPP   48 52.00
                 iS    55 50.00
                 iPS   56 25.00
WIT    78.30  30 eP    45 50.00    4.1
LPF    78.36  37 iPc   45 47.90    1.5
       1.9s   651.00nm          6.4mb
SSC    78.42  36 iPc   45 47.90    1.2
       2.3s  1130.00nm          6.5mb
UCC    78.84  33 Pc    45 50.60    1.7
                 PP    48 52.00
                 S     55 55.00
WTS    78.97  31 iPd   45 51.90    2.3
                 e     45 57.00
                 ePP   48 56.00
PTO    79.00  46 eP    45 50.00    0.0
                 eS    55 42.00
                 eSKS  55 53.00
                 eSS   00 50.00
DOU    79.46  33 Pc    45 54.50    2.2
                 SKS   56 06.00
HEE    79.46  32 iPd   45 54.60    2.3
                 e     46 00.00
MEM    79.68  32 Pc    45 57.00    3.5
                 PP    49 03.00
                 SKS   56 10.50
PUL    79.69  15 Pd    45 55.00    1.6
                 esP   46 00.00
                 eS    56 02.00
SLA    79.71 132 Pd    45 54.50    0.3
MFF    79.80  38 iPc   45 55.60    1.4
       2.2s  1060.00nm          6.4mb
BNS    79.90  31 iPd   45 58.00    3.3
MTE    80.10  46 P     45 58.20    2.1
CN2    80.25 319 P     45 57.10    0.4
                 PP    48 59.00
LIS    80.26  48 Pd    45 57.30    0.5
                 iPcP  46 02.60
WLF    80.45  33 eP    45 59.00    1.4
                 PP    49 08.00
                 SKS   56 14.00
                 PS    57 01.00
LSF    80.[illegible]  37 iPc   46 00.80    0.9
       2.2s   831.00nm          6.4mb
TLL    81.[illegible] P     46 04.50    3.4
TCF    81.16  37 iPc   46 02.80    1.3
       2.1s   549.00nm          6.2mb
SSF    81.20  36 iPc   46 03.30    1.6
       2.2s   852.00nm          6.4mb
LOR    81.22  35 iPc   46 03.50    1.7
AVF    81.33  36 iPc   46 03.50    1.1
       1.9s   425.00nm          6.2mb
MZF    81.39  37 iPc   46 03.90    1.2
LFF    81.41  39 iPc   46 04.50    1.7
       1.5s   239.00nm          6.0mb
LGR    81.49  42 iPd   46 06.10    2.8
                 ePP   49 22.00
RJF    81.53  38 iPc   46 04.80    1.3
       1.5s   236.00nm          6.0mb
SMF    81.67  36 iPc   46 05.20    1.1
       1.7s   253.00nm          6.0mb
HAU    81.79  34 eP    46 06.30    1.5
       2.2s   777.00nm          6.4mb
LPO    81.82  39 iPc   46 06.50    1.6
       2.1s   556.00nm          6.3mb
CDF    81.88  33 eP    46 06.90    1.6
       2.1s   557.00nm          6.3mb
WLS    81.92  33 P     46 07.00    1.6
CLL    81.93  28 iPd   46 06.90    1.5
                 i     46 12.00
                 PP    49 20.00
                 (SKS) 56 26.00
                 PS    57 16.00
MOX    81.93  29 ePd   46 07.00    1.6
       2.3s   767.00nm          6.4mb
     Z  19s    16.40um          6.4Msz
     E  19s    35.80um
                 ePP   49 22.00
                 eS    56 30.00
ECH    81.98  33 P-    46 07.50    1.7
                 ePP   49 12.00
                 eS    56 24.00
                 eSS   01 40.00
CAF    82.08  38 iPc   46 07.60    1.3
BUH    82.09  32 eP    46 07.80    1.5
BSF    82.11  34 eP    46 07.90    1.3
       1.8s   489.00nm          6.3mb
BAF    82.20  33 P     46 08.50    1.5
TEN    82.20  60 P     46 03.50   -3.7
                 (S)   56 40.30
SHK    82.25 308 eP    46 07.80    0.4
STU    82.42  32 iPd-  46 10.50    2.5
       2.0s   471.00nm          6.3mb
     Z  20s    12.80um          6.3Msz
TOL    82.43  45 P     46 09.50    1.3
                 iS    56 35.00
                 iPS   57 20.00
                 iSS   01 37.00
GRF    82.53  30 iPd   46 11.10    2.5
     Z  20s    10.70um          6.2Msz
                 e     46 16.70
                 eS    56 39.80
EPF    82.58  40 iPc   46 10.30    1.3
       2.5s  1240.00nm          6.6mb
BRG    82.63  28 iP    46 10.70    1.7
       2.2s   665.00nm          6.4mb
     N  19s    19.20um
     E  19s    31.80um
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		i	46	17.00	
		e	47	02.00	
		eS	56	36.80	
IRK	82.93	335	eP	46	09.00	-1.6
		eS	56	28.00	
BUB	82.96	33	P	46	12.00	1.1
SSB	83.01	36	iPd	46	12.80	1.6
MLS	83.01	40	iPd	46	18.00	6.8
ZUL	83.08	33	P	46	12.50	1.0
CEN	83.19	139	e(P)	46	14.00	1.8
PRA	83.47	28	iP	46	15.00	1.6
		e	46	21.00	
		PP	49	36.00	
		PPP	51	28.00	
		S	56	50.00	
		PS	57	42.00	
SFS	83.50	48	iP	46	16.00	2.2
		iPP	49	52.00	
		iS	56	44.00	
KSP	83.51	27	eP	46	15.00	1.4
PRU	83.57	28	Pd	46	16.20	2.3
	1.8s	87.50nm			5.7mb	
		i	46	21.70	
		eS	56	50.00	
		i	57	38.00	
FUR	83.76	31	eP	46	17.50	2.6
		eS	56	50.00	
KHC	83.90	29	Pd	46	17.80	2.1
		esP	46	23.00	
WAR	83.93	23	eP	46	17.00	1.3
	Z 20s	12.30um			6.3Msz	
		e	49	23.00	
		e	56	55.00	
MDZ	84.17	140	e(P)	46	16.40	-0.7
EBR	84.24	42	eP	46	19.00	1.6
		(PP)	49	43.00	
		(S)	56	49.00	
ORO	84.33	34	P	46	20.50	2.5
MOY	84.52	336	ePc	46	21.00	2.4
CRT	84.53	47	iPc	46	23.00	3.9
OGA	84.68	32	iPd	46	22.50	2.7
RAC	84.82	26	P	46	22.00	1.8
ZAK	84.87	334	Pd	46	22.50	2.1
		eS	56	42.00	
MOS	84.88	13	Pd	46	23.00	2.6
		isP	46	26.00	
		eS	56	52.00	
BAO	84.92	114	eP	46	22.20	0.9
KMR	84.99	30	iPd	46	23.80	2.7
		e	23	20.00	
STV	85.09	36	P	46	25.50	3.7
MOA	85.21	30	iPc	46	23.50	1.3
		e	46	25.00	
OBN	85.23	14	eP	46	23.00	0.9
		iS	56	58.00	
LRG	85.24	37	eP	46	24.20	1.8
	2.3s	1070.00nm			6.7mb	
ROB	85.30	35	P	46	24.50	1.7
SPF	85. 1	36	eP	46	24.30	1.5
	2.1s	718.00nm			6.5mb	
LMR	85.40	37	eP	46	24.80	1.6
	2.3s	982.00nm			6.6mb	
ALM	85.42	46	iPd	46	31.20	7.8
	2.4s	6.00nm			4.4mb	X
	N 21s	0.80um				
KRA	85.44	25	ePd	46	24.60	1.3
	2.2s	1000.00nm			6.6mb	
	Z 20s	5.90um			6.0Msz	
	N 24s	21.00um				
	E 24s	20.00um				
		e	46	25.60	
		e	46	29.20	
		e	46	41.60	
		e	49	42.00	
		e	51	42.00	
		eS	57	00.00	
		e	02	07.40	
		e	02	09.50	
		e	02	16.30	
PCN	85.52	34	P	46	33.00	9.2
VKA	85.66	28	iPd	46	26.50	2.1
		pP	46	32.00	17kmX	
		pPP	49	52.00	
		S	57	01.00	
VIE	85.69	28	ePd	46	27.00	2.5
		pP	46	32.00	16kmX	
		S	57	00.00	

		e	23	00.00	
NVS	85.93	347	P	46	26.30	0.7
		eS	57	00.80	
SVE	85.95	0	Pd	46	27.00	1.3
		isP	46	32.00	
		eS	56	58.00	
SOP	86.23	28	P	46	24.00	-3.3
		ePcP	46	26.00	
		e	47	24.00	
		e	48	46.00	
SPC	86.29	26	eP	46	30.10	2.3
	Z 15s	14.80um			6.5MszX	
		i	46	36.50	
ARU	86.34	1	eP	46	28.00	0.4
		isP	46	33.50	
		eS	57	00.00	
UER	86.65	340	Pc	46	30.50	1.3
GUA	86.73	284	e(P)	46	30.00	-0.2
GUMO	86.73	285	e(P)	46	31.00	0.8
		eS	57	09.50	
TRI	86.75	31	iPd	46	32.00	2.2
		iPP	49	58.00	
		eS	57	10.00	
		i	11	10.00	
SRO	86.77	27	iPd	46	33.00	3.1
	N 20s	15.90um				
	E 20s	20.20um				
		e	49	59.00	
		iS	57	13.00	
LJU	86.79	30	eP	46	31.50	1.4
		eS	57	30.00	
ELT	86.94	345	eP	46	30.00	-0.6
JOS	86.98	26	ePd	46	33.00	2.1
	1.5s	90.00nm			5.8mb	
LVV	86.98	23	Pd	46	33.50	2.6
		eS	57	13.00	
PRT	87.08	34	P	46	39.00	7.6
		iS	57	22.50	
CVF	87.10	36	eP	46	33.20	1.5
FIR	87.23	34	P	46	35.00	2.8
		S	57	26.00	
PSZ	87.25	26	P	46	34.00	1.6
UZH	87.46	25	Pd	46	34.00	0.8
		iS	57	15.00	
ZAG	87.55	30	eP	46	52.90	19.2
		eS	57	20.00	
BJI	87.73	321	eP	46	35.10	0.4
	Z 17s	3.40um			5.8MszX	
	E 19s	5.10um				
		eSKS	57	04.00	
HNR	88.82	257	eP	46	42.00	1.8
		eS	57	20.00	
MNS	88.97	34	P	46	41.50	1.0
AQU	89.31	33	P	46	44.50	2.2
RMP	89.44	34	P	46	44.00	1.1
		ePP	50	24.00	
		eS	57	28.00	
TIM	89.59	27	P	46	36.40	-7.0
BEO	90.10	28	P	46	50.00	4.2
TIA	90.13	318	P	46	48.20	2.0
DUI	90.33	33	P	46	49.00	2.1
		e	50	35.00	
MBO	90.48	71	eP	46	45.60	-2.4
		e	46	56.60	
		e	50	32.00	
		e	50	53.00	
		e	51	16.00	
		e	57	28.00	
KIS	90.94	21	Pc	46	56.00	6.3
		iS	57	39.00	
CMP	91.31	25	eP	47	00.00	8.5
MLR	91.41	24	eP	46	51.00	-1.1
SSE	91.62	312	eP	46	55.20	2.1
	N 20s	2.12um				
	E 18s	1.67um				
		eS	57	23.00	
NOU	92.03	243	Pd	46	57.00	2.1
NJ2	92.28	314	P	46	58.40	2.3
BUC	92.42	24	eP	46	42.00	-14.5
KOU	92.48	246	Pd	47	01.60	4.6
TIR	92.83	30	P	47	01.70	3.2
SKO	92.91	29	eP	47	00.10	1.2
		i	47	05.00	
		iPP	50	42.00	
		eSKS	57	40.00	
		iS	58	13.00	
SOF	92.99	27	eP	47	00.00	0.7

		iS	57	50.00	
RDJ	93.03	117	P	47	01.00	1.5
		ePPP	52	48.80	
		eS	58	06.00	
		ePPS	59	44.00	
GIB	93.12	35	P	46	56.80	-3.2
		ePP	50	52.00	
		eSKS	57	31.30	
OHR	93.40	29	eP	47	02.90	1.7
		i	47	08.10	
MES	93.65	34	P	47	13.00	10.7
		ePP	50	51.00	
		iPS	59	38.00	
VAY	93.90	28	eP	47	04.40	1.0
SIM	94.28	19	eP	47	06.00	0.9
WMQ	95.47	341	P	47	11.40	0.7
		PP	51	03.40	
XAN	96.03	322	P	47	15.10	1.7
		PP	51	12.30	
KRP	96.47	226	eP	47	17.00	2.1
		S	58	58.00	
		PS	00	05.00	
LZH	96.71	326	P	47	18.80	2.2
		PP	51	13.80	
SOC	96.88	16	eP	47	17.00	0.0
PYA	97.11	13	eP	47	19.00	0.9
		isP	47	26.00	
ATH	97.24	29	eP	46	18.00	-60.7
		e	47	23.00	
TLG	98.18	348	eP	47	24.00	1.0
GRO	98.21	11	eP	47	29.00	6.0
ANTO	98.62	22	e(P)	48	28.00	62.9
MAK	98.80	10	eP	47	28.00	2.4
FRU	99.02	350	eP	47	25.00	-1.8
		eS	58	58.00	
WEL	99.19	224	eP	47	43.00	15.9
		PP	51	40.00	
		S	59	14.00	
		PS	00	32.00	
		LR	19	00.00	
BKR	99.42	13	Pc	47	35.90	7.1
NRN	100.19	349	ePdiff	47	35.00	2.7
LEN	100.41	13	ePdiff	47	40.00	6.9
ERE	101.10	13	ePdiff	47	44.00	8.0
TAS	101.10	354	ePdiff	47	37.00	1.1
ANR	101.35	351	ePdiff	47	40.00	2.9
BAK	101.71	9	ePdiff	47	56.00	17.4
GRS	102.07	12	Pdiffd	47	48.40	7.9
HKC	102.32	311	Pdiff	47	48.00	6.3
		S	01	07.00	
BAG	102.56	302	Pdiff	47	50.00	6.9
GAR	103.31	353	ePdiff	47	47.00	1.0
DSH	103.90	354	ePdiff	47	54.00	5.5
		eS	59	43.50	
DAV	105.43	292	Pdiff	48	04.00	8.2
CTA	105.75	257	Pdiff	47	58.60	1.5
		iPP	52	23.00	
		iSKS	58	42.00	
		iSP	01	46.00	
MAIO	106.46	1	Pdiffd	48	09.00	9.0
		*	51	13.00	
SHL	110.86	330	PKP	52	21.00	1.1
NDI	112.37	345	PKP	52	14.00	-8.4
		ePP	53	05.00	
		ePS	02	46.00	
		eSS	09	00.00	
CHG	113.58	321	ePKP	52	35.90	10.9
WB2	114.97	263	PKP	52	36.50	8.8
WRA	114.98	263	PKP	52	29.00	1.3
	0.6s	3.00nm				
ASP	117.32	260	ePKP	52	40.00	7.9
BCAO	122.41	53	ePKP	52	40.00	-2.0
BNG	122.42	53	iPKPc	52	43.50	1.5
	0.7s	11.10nm				
SBA	123.27	194	ePKP	52	46.00	4.2
KAD	124.03	345	PKP	52	45.00	-0.1
PSI	126.80	310	ePKP	52	51.00	0.5
GBA	126.83	340	PKPc	52	51.20	0.7
	1.2s	8.60nm				
SPA	127.41	180	e(PKP)	52	48.50	-1.8
	0.7s	5.14nm				
KOD	130.03	339	ePKP	53	05.00	8.0
		ePPP	56	30.00	
		SKS	00	06.00	
		PS	04	48.00	
LWI	133.94	48	iPKPd	53	08.10	3.7
WIN	139.40	81	PKP	53	11.60	-2.7

25d 16h

KRI	145.39	62	ePKP	53 26.00	1.2
CER	145.84	96	ePKP	53 26.50	1.5
	1.3s	442.00nm			
			()	09 13.00	
SUR	146.71	93	PKPc	53 41.90	15.2
BUL	146.82	88	ePKP	53 30.00	2.9
TET	147.61	56	PKP	53 31.00	2.8
CLK	148.18	54	PKP+	53 32.00	2.7
PKR	148.94	87	PKPd	53 40.00	9.8
PRE	149.70	77	PKPc	53 38.50	7.0
BLF	149.71	84	PKP	53 38.50	7.0
MAW	149.93	181	ePKP	53 36.00	5.7
NPA	150.34	47	PKP	53 40.00	7.5
CNG	153.05	74	PKP	53 48.00	11.8
AVY	157.99	36	ePKP	53 49.70	6.5
	579 obs. associated				

JUN 29, 1980 07h 20m 07.02± 0.15s
34.825 N ± 1.1km 139.268 E ± 1.1km
DEPTH = 26.1 ± 1.0 km
5.8mb (71 obs.) 6.2Msz (14 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

Eight people injured and considerable damage (V JMA) and landslides on the Izu Peninsula and on Oshima. Felt (IV JMA) at Kumagaya, Mishima, Toteyama, Tokyo and Yokohama; (III JMA) at Chichibu, Choshi, Irozaki, Kawaguchi-ko, Kofu and Utsunomiya; (II JMA) at Gifu, Kakioka, Karuizawa, Maebashi, Matsumoto, Mito, Nagoya, Onahama, Shizuoka and on Hachijo-jima. Local tsunami generated in Sagami Bay. Maximum wave height (peak-to-trough) was 57 cm. at Okada.

OSH	0.11	125	P*-	20 11.30	-0.6
KTJ	0.19	309	P*-	20 10.10	-2.6
AJI	0.26	327	P*-	20 11.30	-2.3
			iS	20 13.80	
MIS	0.40	316	P*-	20 13.70	-1.9
			S	20 20.60	
NGT	0.41	237	P*	20 16.70	0.9
TMS	0.47	78	P*	20 18.00	1.2
			iS	20 28.00	
OYM	0.59	358	iP*c	20 17.40	-1.4
YOK	0.69	27	P*	20 20.50	0.2
			iS	20 31.90	
SHZ	0.72	282	P*	20 20.00	-0.9
			iS	20 31.20	
SRY	0.78	0	iP*c	20 20.50	-1.4
FUN	0.79	329	P*	20 21.00	-1.1
KYS	0.81	63	iP*c	20 22.50	0.1
OMA	0.90	256	P*	20 23.00	-0.8
			eS	20 39.00	
TOK	0.95	25	P*+	20 24.30	-0.3
			eS	20 38.00	
KOF	1.02	326	P*-	20 24.00	-1.6
			eS	20 36.00	
DDR	1.17	357	ePn	20 26.80	-1.0
			eS	20 52.60	
TK04	1.23	249	Pn+	20 29.60	1.1
CHJJ	1.24	350	Pn-	20 27.70	-1.0
TK03	1.26	239	Pn+	20 30.40	1.5
HMM	1.28	265	Pn+	20 30.20	1.0
			iS	20 48.20	
IIDJ	1.29	301	Pn-	20 29.50	0.0
KMG	1.32	4	Pn	20 30.20	0.4
			S	20 48.60	
IID	1.36	301	Pn-	20 30.40	0.0
			S	20 48.60	
TK02	1.53	235	Pn	20 33.60	1.0
TSK	1.54	26	iPnc	20 32.00	-1.1
KAKJ	1.56	28	Pn+	20 32.30	-1.0
CHO	1.57	55	Pn+	20 33.70	0.2
			S	20 54.30	
MAE	1.58	354	Pn+	20 34.20	0.6
			S	20 57.40	
KAZ	1.62	339	Pn	20 35.80	0.7
			S	20 54.80	
TK01	1.75	233	Pn	20 36.00	0.3
MTM	1.77	324	Pn	20 39.10	2.8
			S	21 03.20	
HJJ	1.77	166	Pn-	20 39.00	2.6
			iS	21 03.50	
UTS	1.78	16	Pn	20 36.00	-0.5
MIT	1.83	32	Pn+	20 36.70	-0.6
			S	20 56.40	
MAJO	1.92	334	iPnd	20 39.10	0.6
MAT	1.92	334	Pn-	20 39.00	0.5
			S	21 03.00	
NAG	1.92	281	Pn-	20 40.30	1.8
			S	21 06.40	
NGN	2.03	335	Pn-	20 41.90	1.8
			iS	21 11.20	
TKY	2.11	309	Pn	20 43.00	1.7
			eS	21 12.60	
MTMJ	2.12	326	Pn-	20 42.60	1.0
GIF	2.13	286	Pn-	20 43.20	1.6
			eS	21 12.00	
TSU	2.27	268	Pn+	20 44.20	0.7
			iS	21 13.10	
SHR	2.42	18	Pn	20 45.00	-0.6
NIIJ	2.42	355	Pn+	20 45.50	-0.2
TKD	2.42	340	Pn-	20 47.70	2.0
			S	21 17.00	
ONA	2.50	32	Pn+	20 46.00	-0.8
TOY	2.52	319	Pn-	20 48.30	1.3
			S	21 22.00	
HIK	2.52	281	Pn-	20 48.70	1.6
			iS	21 20.70	
OWA	2.65	254	Pn+	20 48.70	-0.2
			S	21 18.40	
KAN	2.74	310	Pn-	20 52.20	2.0
FUK	2.77	297	Pn-	20 52.00	1.4
			eS	21 27.00	
TSRJ	2.78	286	Pn	20 51.00	0.2
			()	21 26.90	
NAR	2.83	268	Pn	20 52.20	0.7
KYO	2.91	275	Pn	20 53.30	0.7
			S	21 27.30	
OSK	2.98	267	Pn+	20 54.00	0.4
			iS	21 28.70	
FKS	3.08	18	Pn+	20 55.00	-0.1
			S	21 33.00	
NII	3.08	357	Pn+	20 56.50	1.4
			eS	21 35.80	
OSA	3.09	268	Pn+	20 55.80	0.6
			iS	21 33.00	
WKYJ	3.09	260	Pn	20 55.00	-0.3
WAJ	3.20	324	Pn	20 59.00	2.3
			eS	21 39.00	
SHJ	3.21	246	Pn-	20 57.20	0.3
			eS	21 33.00	
MAI	3.24	283	Pn	20 59.00	1.6
AIK	3.29	346	Pn	20 58.50	0.5
			eS	21 41.00	
OIC	3.34	259	ePnc	20 58.00	-0.8
YAMJ	3.40	10	Pn+	20 59.40	-0.2
WKY	3.44	261	Pn+	21 01.00	0.9
			iS	21 41.90	
YAM	3.53	14	Pn	21 02.00	0.5
			S	21 52.80	
SEN	3.67	20	Pn+	21 02.80	-0.6
			()	21 48.00	
TYK	3.71	282	Pn	21 04.00	0.1
HIM	3.76	271	Pn	21 05.10	0.5
			S	21 55.80	
ISN	3.95	24	Pn	21 08.00	0.7
			iS	22 02.40	
TKS	3.95	260	Pn+	21 07.60	0.3
			S	21 54.90	
SKH	4.06	8	Pn	21 10.00	1.0
TOTJ	4.15	280	Pn	21 12.00	1.8
TOT	4.23	281	Pn	21 11.00	-0.3
			eS	22 03.00	
TKM	4.33	265	Pn	21 12.10	-0.6
			iS	22 00.90	
TKSJ	4.40	260	Pn+	21 14.00	0.3
OKA	4.41	270	Pn	21 14.00	0.1
			iS	22 05.20	
MRT	4.51	251	Pn-	21 15.10	-0.3
			eS	22 12.50	
MIZ	4.55	19	iPnc	21 15.70	-0.3
HJH	4.56	9	Pn+	21 16.40	0.3
OFU	4.66	24	Pn	21 17.00	-0.5
			eS	22 12.00	
OFUJ	4.66	24	Pn+	21 16.30	-1.2
			eS	22 11.00	
YONJ	4.78	276	Pn	21 19.00	-0.2
KOC	4.92	257	Pn+	21 21.20	0.1
			S	22 19.80	
AKI	4.93	8	Pn+	21 23.50	2.3
			S	22 20.80	
SAI	5.03	288	Pn	21 21.00	-1.7
			eS	22 23.00	
MRK	5.09	17	Pn	21 24.00	0.4
			eS	22 24.00	
MTS	5.12	279	Pn	21 25.00	1.1
MIY	5.27	23	Pn	21 25.00	-1.1
			S	22 29.20	
HIR	5.65	267	Pn	21 32.00	0.5
			eS	22 33.00	
UWA	5.79	256	Pn	21 34.00	0.5
HMD	5.92	273	Pn	21 37.00	1.8
HAC	5.97	17	Pn+	21 36.80	0.9
			eS	22 51.00	
AOM	6.10	11	Pn	21 39.00	1.2
			eS	22 48.50	
OIT	6.54	258	Pn	21 46.00	2.0
			S	23 05.30	
NOB	6.70	253	Pn	21 47.00	0.7
			eS	23 08.00	
SHNJ	6.77	266	Pn	21 47.00	-0.3
SHN	6.94	265	Pn	21 49.00	-0.6
			S	23 05.20	
HAK	7.08	9	Pn	21 53.00	1.5
ASJ	7.09	256	Pn+	21 51.00	-0.8
			eS	23 15.00	
MYZ	7.17	248	Pn	21 54.40	1.6
			S	23 17.40	
KUMJ	7.40	254	Pn	21 57.00	1.0
KUM	7.40	257	Pn	21 56.00	0.0
SAG	7.61	261	Pn	21 58.00	-0.9
			S	23 28.60	
MRRJ	7.72	10	Pn	21 59.00	-1.5
UNZ	7.78	257	Pn	22 01.60	0.2
URA	7.82	20	Pn	22 02.00	0.1
			eS	23 31.00	
KAGJ	7.92	245	Pn	22 03.00	-0.3
KMU	7.95	20	ePn	22 01.80	-1.9
			eS	36 34.80	
KAG	7.99	248	P	22 04.80	0.5
SUT	7.99	5	Pn	22 05.00	0.7
			eS	23 34.00	
TAJ	8.07	242	P	22 06.00	0.6
			eS	23 45.00	
NGS	8.10	258	P	22 06.20	0.4
			eS	23 37.40	
CBI	8.10	161	P	22 04.00	-1.9
			S	23 44.50	
HOOJ	8.18	21	P	22 03.00	-3.8X
IZU	8.25	269	P	22 13.00	5.0X
			eS	23 47.00	
SAP	8.38	10	P	22 12.50	2.9
			eS	23 58.00	
FKJ	8.94	259	P	22 16.00	-1.5
			eS	24 09.00	
KUS	9.07	25	P	22 17.00	-2.2
			eS	23 52.00	
ASA	9.25	14	P	22 20.00	-1.7
KUSJ	9.28	26	P	22 17.00	-5.1X
RMJ	9.29	11	P	22 24.00	1.7
ASAJ	9.64	15	P	22 24.00	-3.1
NEM	9.81	28	P	22 24.00	-5.4X
			eS	24 07.00	
ABJ	9.96	21	P	22 24.00	-7.5X
VLA	10.07	327	Pd	22 34.60	1.6
NZJ	10.52	235	P+	22 39.10	-0.1
			eS	24 57.00	
WAK	10.74	9	P	22 44.00	1.9
			eS	24 45.00	
MVI	11.33	220	P	22 51.10	0.8
KUR	12.30	30	Pc	22 56.50	-6.7X
			iS	25 17.00	
YSS	12.45	11	Pc	22 58.40	-6.9X
NGO	12.71	233	P	23 07.50	-1.3
NAH	13.16	232	P	23 13.50	-1.2
KMJ	13.66	235	P	23 20.00	-1.3
CN2	13.94	314	P	23 26.20	1.2
			S	26 08.00	
SSE	15.63	261	iPc	23 47.50	0.5
	N 14s	167.00um			
	E 14s	65.80um			
			isP	26 54.00	
			iS	28 06.00	
ISI	16.77	235	P	24 05.00	3.4X
			eS	27 24.00	

29d 07h

NJ2	17.26	267	P	24	08.30	0.5			eS	33	00.00				eS	36	38.00		
			iS	27	29.30		MOM	37.46	167	P	27	19.50	-0.6	KHO	53.67	294	P	29	28.20	-0.7
TIA	18.08	281	P	24	19.50	1.5	KVG	38.74	161	eP	27	29.00	-1.9				S	37	02.20	
ANP	18.11	243	P	24	21.00	2.6	TOC	38.61	271	P	27	29.00	-2.5	GAR	54.09	296	eP	29	30.00	-1.8
			S	27	44.00					S	33	26.00		TAS	54.12	299	ePd	29	31.00	-0.9
TATO	18.25	242	eP	24	20.00	-0.1	CHG	39.07	257	iPc	27	33.00	-0.7				eS	37	02.50	
			epP	24	28.00			1.5s	118.00nm			5.4mb		KHE	54.45	349	ePc	29	33.00	-0.9
HWA	18.78	240	P	24	28.30	1.8				eS	33	32.00					iS	37	09.00	
			eS	28	14.60		PCT	39.48	249	ePc	27	37.00	-0.1	WB2	54.66	186	P	29	33.80	-2.2
BJI	19.04	293	Pd-	24	28.40	-1.3		1.0s	49.70nm			5.2mb					e	34	38.00	
	2.5s	1290.00nm				5.7mb	AAI	39.70	197	eP	27	39.10	0.2				eS	37	19.00	
Z	19s	95.90um					KKI	39.70	170	eP	27	40.00	1.0				e	00	06.50	
N	18s	71.60um					BDT	39.88	254	iPd	27	41.30	0.9	WRA	54.67	186	Pc	29	33.80	-2.2
			eS	28	02.00			0.8s	67.50nm			5.4mb			0.8s	117.00nm			6.0mb	
TCU	19.33	242	P	24	31.60	-1.6	WMQ	40.33	299	P	27	45.10	1.1	KUL	54.87	295	eP	29	36.00	-1.5
			S	32	37.20					S	33	54.70					isP	29	42.90	
TTN	19.88	238	P	24	42.60	3.4X	NKI	40.54	47	ePc	27	45.10	-0.3	CTA	55.01	172	P	29	37.60	-1.0
SKR	20.01	33	Pc	24	38.00	-2.4	RAB	40.66	160	eP	27	46.00	-0.8				iS	37	19.00	
QZH	20.42	247	P	24	43.10	-1.7				eS	33	52.00		ISO	55.23	180	eP	29	39.00	-1.2
			pP	24	54.10	46kmX	LSA	40.70	277	P	27	46.30	-1.4	DSH	55.37	296	eP	29	41.00	-0.2
			sP	25	00.10					S	33	58.30					iS	37	25.00	
			iS	28	35.10		ILT	40.76	23	Pc	27	45.40	-1.6	SVE	55.67	319	Pc	29	42.60	-0.4
HEN	20.66	237	eP	24	49.00	1.7				eS	33	45.00					iS	37	27.00	
			S	28	49.00		ELT	41.24	313	Pd	27	50.30	-0.9	AJM	55.67	280	P	29	53.00	9.6X
WHN	21.38	265	P	24	54.50	-0.2	SHL	41.66	270	P	27	54.00	-1.2				S	37	45.00	
			pP	25	03.50	33kmX				S	34	14.00		KIP	56.10	86	eP	29	48.00	1.5
			iS	28	54.50		LML	41.98	168	P	27	57.50	0.0				eS	37	40.00	
GUMO	21.74	165	e(P)	24	58.00	-0.4	AGT	42.89	269	P	28	00.00	-5.1X	SAM	56.31	298	eP	29	47.00	-0.9
			e(S)	28	47.00		NVS	43.11	316	Pd	28	05.00	-1.5	HYB	56.40	269	eP	29	47.00	-1.9
PJG	21.74	165	e(P)	24	57.50	-0.9				iS	34	19.00					e	29	53.00	
GUA	21.80	165	e(P)	24	58.30	-0.7	MKS	43.98	209	iPc	28	14.70	0.8				ePcP	30	49.50	
	0.8s	549.00nm				6.0mb	LMG	44.30	167	eP	28	17.00	0.4				ePP	31	48.00	
			eS	28	56.00		NRI	44.42	337	Pc	28	14.50	-2.4				eS	37	40.00	
PET	22.80	31	Pc	25	08.00	-0.5	PMG	44.62	169	ePc	28	18.00	-1.1				eSS	41	20.00	
			eS	29	15.00			Z 23s	12.40um			5.8Msz		PNL	56.45	37	ePc	29	48.60	0.0
BTO	23.78	293	P	25	17.90	-0.5	SEM	44.04	309	eP	28	19.00	-2.3	KAAO	56.59	291	iPc	29	49.00	-1.2
			S	29	32.90					S	34	56.20					i	29	53.70	
BAG	24.83	227	Pc	25	26.40	-2.3	CAL	45.87	269	P	28	22.00	-7.0X	KBL	56.59	291	iPc	29	49.60	-0.6
			iS	29	52.00					S	35	01.00		ARU	56.86	319	Pc	29	50.60	-0.9
XAN	25.00	277	P	25	29.90	-0.3	IPM	46.43	238	ePc	28	31.50	-2.1				esP	29	55.70	
HKC	25.25	247	P	25	32.00	-0.5		0.9s	183.00nm			6.0mb					eS	37	42.00	
			S	29	52.00		KGM	46.73	234	eP	28	36.00	0.2	MDR	57.38	263	P	29	59.10	3.4X
GZH	25.44	250	P	25	32.60	-1.7		1.1s	200.00nm			6.0mb					P	32	10.60	
			pP	25	42.60	37kmX	PRZ	47.25	298	eP	28	41.00	1.1				PPP	33	36.60	
			S	30	03.60					eS	35	30.00					S	37	56.60	
LGP	25.75	217	ePd	25	43.40	6.1X	BOK	47.40	272	P	28	37.00	-4.2X	ASP	58.41	186	eP	30	01.00	-1.7
MAN	25.92	224	ePc	25	39.00	0.2				S	35	27.00		PVC	59.12	147	Pc	30	07.50	-0.1
	1.0s	776.00nm				6.3mb	TLG	47.82	300	Pc	28	45.30	1.0	SIT	59.20	39	ePc	30	08.70	0.9
OCP	25.94	224	P	25	24.00	-15.0X				iS	35	39.60		HVO	59.29	87	iP	30	18.00	8.8X
MGD	26.38	13	Pc	25	41.00	-1.7	MTN	48.03	191	eP	28	45.00	-1.0				eS	38	24.00	
			isP	25	44.00		PBA	48.05	253	P	28	50.00	3.7X	GBA	59.30	265	Pd	30	07.70	-1.5
			ipP	25	45.50	16kmX				S	35	50.00			1.0s	67.90nm			5.7mb	
			iS	30	02.00		VAR	49.06	275	Pd	28	54.30	0.4	POO	59.71	272	Pd	30	11.50	-0.5
PLP	26.91	212	ePd	25	45.50	-2.4				PP	30	51.30					PcP	30	55.50	
PGP	26.92	222	eP	25	47.20	-0.9				S	35	56.00					PPP	33	56.50	
YAK	27.88	350	Pc	25	54.30	-2.0				PS	36	13.30					PcS	34	51.00	
			iS	30	33.80		PSI	49.24	239	iPd	28	54.50	-0.9				S	38	22.00	
BOD	28.50	332	eP	26	01.00	-1.0		1.0s	135.00nm			5.9mb					PS	38	37.50	
LZH	28.79	283	P	26	03.90	-1.1				e(S)	34	12.00					ScS	39	52.00	
			sP	26	20.90		IMA	49.47	30	ePc	28	56.70	-0.1				SS	42	21.50	
			S	30	56.40		KSH	49.75	295	P	28	58.40	-0.9	OUE	59.95	288	eP	30	12.00	-1.6
GYA	29.17	262	P	26	07.10	-1.4				S	36	04.30					eS	38	34.00	
			pP	26	16.10	31kmX	FRU	49.90	308	ePd	29	00.00	-0.3	BOM	60.38	273	P	30	20.50	4.0X
			sP	26	21.10					isP	29	06.00					S	38	30.00	
			S	30	01.10					eS	36	08.60					SSS	45	00.00	
SEY	29.28	12	Pc	26	08.90	0.0	KDC	49.96	41	eP	28	59.90	-0.5	GOA	61.29	269	P	30	25.30	2.6
			eS	30	58.40		PPI	50.51	234	ePd	29	06.50	1.4				S	38	44.90	
CGP	29.46	210	eP	26	09.50	-1.5	LEM	51.07	222	iPd	29	09.00	-0.6				PS	39	03.70	
			eS	29	22.00			1.0s	120.00nm			5.8mb					PPS	40	24.00	
CDU	29.85	272	P	26	13.50	-1.0	DDI	51.09	283	P	29	07.90	-1.6	NAU	61.36	205	Pd	30	21.90	-1.0
			S	31	13.50					pP	29	14.90	23kmX	WBN	61.81	193	Pd	30	25.70	-0.3
DAV	30.35	208	eP	26	16.00	-2.9				S	36	24.90		NOU	62.41	151	Pc	30	29.90	-0.1
ZAK	30.36	312	eP	26	16.00	-2.7	KNA	51.27	193	eP	29	10.00	-0.8	ALE	62.43	3	iPc	30	28.50	-1.0
			eS	31	08.50		PMR	51.43	35	ePc	29	10.80	-0.8		1.1s	182.00nm			6.1mb	
:RK	30.37	316	eP	26	14.00	-4.8X		0.9s	104.00nm			5.8mb		TRD	62.52	261	Pc	30	31.00	0.0
			eS	31	21.00			Z 20s	16.00um			6.0Msz					S	39	01.00	
SMY	30.47	43	eP	26	20.80	1.2	COL	51.89	31	iPc	29	15.30	0.2				PS	39	24.00	
KMI	32.93	263	P	26	40.00	-1.8		Z 18s	25.10um			6.3Msz		KBS	62.54	350	iP	30	29.50	-0.8
			pP	26	48.90	31kmX				eS	36	40.00		MAIO	63.06	297	P	30	34.80	0.4
			sP	26	55.50		FBA	51.89	31	ePc	29	14.90	-0.2				iS	39	12.00	
			S	32	02.00		ANR	52.06	298	eP	29	16.00	-0.7	BRS	63.18	167	Pd	30	35.00	-0.1
ADK	35.65	48	ePc	27	04.00	-0.6				eS	36	41.00		ASH	63.21	299	eP	30	35.00	-0.2
MNI	35.83	205	e(P)	27	15.00	8.5X	VIS	52.35	266	P	29	18.00	-1.1	KAT	64.17	301	eP	30	43.00	1.5
UER	36.29	312	Pc	27	08.30	-1.6				S	36	46.00		VUN	64.40	138	ePd	30	44.70	1.5
JAY	37.17	178	ePd	27	16.00	-1.7	NDI	52.39	282	eP	29	17.50	-1.8		0.9s	262.00nm			6.4mb	
TIK	37.28	355	Pc	27	16.50	-1.6		Z 20s	6.74um			5.7Msz		SVA	64.49	138	eP	30	45.50	1.8
			epP	27	17.00	2kmX		E 20s	16.00um					KHI	64.61	295	eP	30	45.00	0.3

TABLE 4-10

29d 67h

KEV	64.89	339	iP	30 45.20	-0.5
	0.8s	49.00nm			5.7mb
			i	30 58.30	
			iPP	33 11.20	
			eS	39 24.00	
SOD	66.32	337	P	30 53.90	-1.1
			iPP	33 19.80	
YKA	66.59	29	P	30 57.40	0.7
AFI	67.12	127	P	31 02.00	1.2
			S	40 03.00	
TRO	67.23	341	iP	30 59.80	-0.9
KJF	67.74	334	iP	31 03.00	-1.0
	0.9s	111.00nm			6.0mb
			i	31 10.00	
			iPP	33 38.80	
			eS	39 58.00	
DAG	67.82	355	iPc	31 02.90	-1.4
	0.9s	84.00nm			5.9mb
			iS	40 05.00	
KIR	67.95	339	Pc	31 04.00	-1.3
			i	31 10.10	
			iS	40 02.00	
			i	59 26.00	
MOS	67.98	323	Pd	31 02.00	-3.6X
			eS	40 06.00	
			S	40 12.00	
MAK	68.46	308	eP	31 12.00	3.2X
			iS	40 16.00	
OBN	68.77	323	Pc	31 10.80	0.3
			iS	40 14.00	
SHE	68.79	305	eP	31 11.00	0.1
PUL	69.20	329	Pd	31 13.00	-0.1
			isP	31 18.00	
			iS	40 16.00	
YOU	69.27	172	P	31 11.30	-2.5
GRO	69.43	309	eP	31 14.00	-0.8
			iS	40 25.00	
CAN	70.37	172	Pc	31 21.30	0.8
NWAO	70.50	200	eP	31 21.00	-0.3
UME	70.59	336	Pc	31 20.30	-1.2
			i	31 28.10	
			iS	40 43.30	
PYA	70.76	311	eP	31 24.00	1.1
			iS	40 43.50	
GRS	70.88	305	Pc	31 22.80	-1.1
LON	71.03	46	iPc	31 24.30	-0.3
	0.9s	28.60nm			5.4mb
NUR	71.07	332	P	31 23.50	-0.9
WAM	71.22	172	P	31 25.70	0.2
SHI	71.31	293	ePd	31 26.00	-0.7
			e(S)	40 44.00	
TAB	71.59	304	eP	31 32.00	3.8X
BKR	71.62	308	Pd	31 29.00	0.6
ERE	71.76	307	Pc	31 33.00	3.9X
LEN	71.89	307	eP	31 30.00	0.0
TOO	72.26	175	Pd	31 32.00	0.2
FHC	72.74	52	iP	31 36.30	1.4
NEW	72.93	43	iPc	31 36.00	0.2
	1.0s	55.00nm			5.5mb
	Z 18s	13.00um			6.3Msz
	N 18s	6.00um			
	E 18s	8.00um			
SOC	73.06	311	Pc	31 40.00	3.4X
WDC	73.80	52	iPc	31 41.60	0.7
UPP	74.16	333	iPc	31 41.60	-1.0
	1.4s	500.00nm			6.3mb
			iS	41 08.00	
KTG	74.19	354	iPc	31 42.70	0.1
	0.9s	54.00nm			5.6mb
			iS	41 18.00	
MIN	74.52	52	iPc	31 45.20	-0.2
SES	74.97	39	eP	31 47.00	-0.6
ORV	75.02	52	iPc	31 48.20	0.2
BHD	75.42	300	ePc	31 55.00	4.6X
			e	41 37.50	
BKS	75.44	54	ePc	31 51.10	0.6
	Z 22s	1.20um			5.2MszX
	N 22s	3.50um			
	E 22s	1.70um			
			eS	41 34.00	
SIM	75.67	315	ePd	31 51.00	-0.6
			eS	41 39.00	
GDH	75.80	5	iPc	31 51.20	-0.7
	1.0s	46.00nm			5.5mb
			iS	41 32.00	
NAO	75.82	337	P	31 50.00	-2.2
	0.9s	23.80nm			5.2mb

MHC	76.13	54	iP	31 55.30	0.8
SAV	76.52	174	eP	31 58.00	1.8
SAO	76.58	55	iP	31 57.10	0.2
JAS	76.59	53	iPc	31 57.80	0.8
			e	32 05.00	
			PP	34 57.00	
BUT	76.77	43	eP	31 58.40	0.4
			e	32 04.40	
CMT	76.82	42	ePc	31 58.40	0.2
			e	32 04.30	
KON	77.11	336	iP	31 59.30	-0.1
BMN	77.26	50	ePc	32 02.30	1.5
	1.0s	25.00nm			5.2mb
KIS	77.39	319	Pc	32 04.00	2.9
			iS	41 58.00	
PRI	77.44	55	iPc	32 03.00	1.1
FRI	77.61	54	iPc	32 03.20	0.6
TAU	77.71	174	eP	32 05.00	2.3
			eS	41 56.00	
MNV	77.81	52	iPc	32 04.50	0.6
BER	77.89	339	iP	32 03.80	0.2
WAR	77.94	326	eP	32 10.00	5.9X
			e	35 05.00	
			e	42 07.00	
LVV	78.12	323	Pd	32 06.10	1.0
			iS	42 04.00	
AKU	78.28	351	iP	32 07.80	2.1
	2.0s	900.00nm			6.5mb
	Z 20s	4.50um			5.8Msz
			i	32 14.40	
EUR	78.59	50	iP	32 09.20	0.9
	1.0s	36.50nm			5.4mb
CFR	78.91	318	eP	32 10.00	0.5
COP	79.10	333	iPc+	32 10.00	-0.3
	0.9s	161.00nm			6.0mb
			iPP	35 13.00	
			iS	42 08.00	
VRI	79.26	319	eP	32 12.00	0.5
LD3	79.74	40	ePc	32 13.10	-1.0
	0.9s	26.10nm			5.3mb
UZH	79.75	323	Pc	32 16.00	2.0
			eS	42 15.00	
BMR	79.79	322	eP	32 15.00	0.7
KRP	79.83	152	P	32 16.00	1.6
MLR	79.93	319	eP	32 16.00	0.8
KRA	79.93	325	ePc	32 14.80	-0.2
	0.9s	77.10nm			5.7mb
	Z 15s	66.10um			7.1MszX
	N 20s	59.20um			
	E 20s	79.70um			
			e	32 19.60	
			e	32 21.90	
			e	32 26.00	
			e	32 35.00	
			e	33 22.00	
			e	35 22.00	
			e	35 56.00	
			eS	42 14.00	
			e	43 38.00	
REY	80.25	352	eP	32 18.80	2.4
PAS	80.26	55	iPc	32 17.00	-0.1
	Z 20s	14.00um			6.3Msz
	N 20s	15.00um			
	E 20s	21.00um			
			ePcP	32 48.00	
			iS	42 24.00	
			eScS	43 24.00	
CJR	80.37	321	eP	32 20.00	2.5
			e	32 54.00	
SPC	80.38	324	eP	32 17.20	-0.4
			i	32 22.80	
			e	32 35.70	
			iPP	35 28.50	
			e(S)	42 29.00	
BDW	80.45	44	ePc	32 18.40	0.2
	1.1s	25.60nm			5.2mb
CMP	80.56	319	eP	32 24.00	5.5X
JOS	80.71	324	ePc	32 19.00	-0.2
KSP	81.04	327	iPc	32 21.20	0.3
			ePP	35 29.00	
			e(S)	42 25.00	
BRN	81.21	330	ePc	32 26.50	4.8X
			i	35 31.50	
DEV	81.28	321	eP	32 29.00	6.8X
PSZ	81.42	324	P	32 23.30	0.3
COB	81.57	155	P	32 24.00	0.4
GZR	81.67	320	eP	32 25.00	0.6

PVL	81.86	318	iPd	32 25.00	-0.3
BRG	82.04	329	iP	32 33.40	7.3X
	2.4s	730.00nm			6.3mb
	Z 16s	46.00um			6.9MszX
	N 20s	45.00um			
	E 20s	79.00um			
			eS	42 48.00	
CLL	82.12	329	iPc	32 26.20	-0.2
			i	32 33.00	
			PP	35 37.00	
			e	35 54.00	
			e	37 16.00	
			e	38 14.00	
			(SKS)	42 44.00	
			e	43 27.00	
			P'P'	59 03.00	
BUD	82.15	324	eP	32 27.00	0.3
MNG	82.15	153	iP	32 26.30	-0.3
TIM	82.25	321	eP	32 29.00	1.8
SRO	82.26	324	iP	32 31.30	4.1X
	N 18s	64.80um			
	E 18s	66.10um			
			iPP	35 41.00	
			iS	42 38.00	
DIM	82.35	317	eP	32 30.00	2.2
PRA	82.42	328	iP	32 28.00	0.0
			pP	32 35.00	22kmX
			PP	35 42.00	
			(SKS)	42 48.00	
			PKKS	53 54.00	
PRU	82.43	328	iPc	32 28.20	0.1
			pP	32 35.00	22kmX
			PP	35 42.00	
			(SKS)	42 44.00	
			PS	43 26.00	
			PPS	44 04.00	
			SS	48 00.00	
			SSS	53 46.00	
SNZO	82.47	154	eP	32 32.30	4.1X
WEL	82.47	154	P	32 29.00	0.8
SSR	82.57	321	eP	32 29.00	0.0
GCA	82.85	50	e(P)	32 28.50	-2.3
VIE	82.87	326	ePc	32 32.00	1.6
			e	32 36.00	
			PP	35 44.00	
			PS	43 38.00	
			e	25 00.00	
VKA	82.88	326	iPc	32 31.50	1.0
			e	42 31.00	
			PS	43 38.00	
			e	15 00.00	
GLA	83.15	54	ePc	32 33.80	1.6
SOF	83.18	318	iPc	32 37.00	4.8X
			PP	37 00.00	
			PPP	39 38.00	
			eS	45 38.00	
SOP	83.19	325	iPc	32 32.30	0.2
	1.0s	80.00nm			5.8mb
MOX	83.20	329	eP	32 33.00	0.9
	3.0s	1830.00nm			6.7mb
	Z 14s	45.70um			7.0MszX
	N 18s	46.80um			
	E 18s	52.30um			
			ePP	35 48.00	
			eS	42 50.00	
MSZ	83.29	160	iP	32 33.20	0.8
HOF	83.34	329	iPc	32 33.00	0.2
			e	35 44.00	
			eS	42 52.00	
RHP	83.41	158	eP	32 35.00	1.9
WIT	83.47	333	eP	32 34.50	1.1
			e	32 41.00	
KHC	83.49	328	iP	32 34.00	0.3
			i	32 41.00	
			i	32 43.00	
			i	35 54.00	
			S	43 00.00	
			e	54 30.00	
KWR	84.04	327	eP	32 35.00	-1.4
			pP	32 43.00	25kmX
			e	35 53.00	
			sS	43 10.00	
			SP	43 45.00	
			e	14 00.00	
WTS	84.06	333	eP	32 36.50	0.1
			i	32 43.30	
			e	33 05.00	

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		e	35	43.00	
		eS	43	08.00	
GRF	84.09	329	iPc	32	37.10	0.5
	1.1s	277.00nm			6.4mb	
		e	35	54.50	
		i	42	58.00	
GRFO	84.09	329	iPc	32	37.30	0.7
		i	32	44.50	
MOA	84.13	326	iPc	32	37.40	0.5
		e	32	43.00	
		PP	35	56.00	
EIL	84.17	302	Pc	32	36.50	-0.9
VAY	84.52	317	iP	32	39.20	0.3
DBN	84.59	334	iPc	32	44.00	5.0X
	Z 22s	13.70um			6.3Msz	
	N 20s	46.30um				
	E 20s	60.50um				
		e	32	59.00	
		e	33	13.00	
		e	35	41.00	
		i	35	56.00	
		i	36	04.00	
		iS	43	07.00	
		e	43	36.00	
EKA	84.61	340	Pd	32	39.60	0.5
	1.0s	20.90nm			5.3mb	
SKO	84.70	319	iP	32	45.00	5.2X
		iS	43	10.00	
BNS	84.74	332	iPc	32	40.00	0.2
ZAG	84.80	324	iP	32	45.80	5.6X
		iPcP	33	08.10	
		eSKS	43	07.40	
GOL	84.85	44	ePc	32	42.30	1.3
	1.1s	22.50nm			5.3mb	
PMO	84.93	112	eP	32	48.00	6.8X
	1.3s	160.00nm			6.1mb	
BLY	84.98	323	iP	32	41.20	0.0
FUR	85.22	328	iPc	32	42.90	0.5
		e	36	07.00	
		eS	43	09.00	
HEE	85.26	332	iPc	32	42.60	0.2
		e	32	49.50	
		e	00	44.00	
PPN	85.33	115	eP	32	51.00	7.8X
	1.3s	120.00nm			6.0mb	
LJU	85.33	325	ePc	32	43.00	0.1
		ePP	36	08.50	
		eS	43	08.50	
RUV	85.43	112	eP	32	51.00	7.3X
	1.3s	120.00nm			6.0mb	
MEM	85.47	332	Pc	32	45.00	1.5
		PP	36	05.60	
		PS	44	13.00	
CEY	85.61	325	ePc	32	43.00	-1.3
		i	32	48.00	
		ePP	36	08.50	
		eS	43	08.50	
OHR	85.64	318	iP	32	44.80	0.2
		i	32	50.60	
STU	85.65	329	ePc+	32	44.50	0.1
	1.0s	160.00nm			6.2mb	
TRI	85.94	325	i(P)c	32	44.30	-1.6
		i	32	49.00	
		i(PP)	36	10.00	
		e(SKS)	43	04.00	
		i(S)	43	14.00	
UCC	85.94	333	Pd	32	46.00	0.2
		PcP	32	50.10	
		PP	36	08.20	
ATH	86.11	314	ePc	32	50.00	3.1X
		ePP	36	06.00	
		eS	43	18.00	
BUH	86.12	330	ePc	32	46.50	-0.4
WLF	86.17	332	ePc	32	53.00	6.0X
		S	43	18.00	
		ScS	43	32.00	
TUC	86.29	53	ePc	32	48.90	0.8
DOU	86.43	333	Pd	32	48.30	0.0
		PP	36	14.00	
CDF	86.72	330	iPd	32	50.20	0.3
	1.0s	42.10nm			5.6mb	
DMU	86.92	341	eP	32	50.60	0.0
	1.1s	100.00nm			6.0mb	
ECH	86.92	330	P	32	50.20	-0.6
		iS	43	26.00	
		e	06	00.00	
ZUL	86.99	329	P	32	50.00	-1.1
DDK	87.22	340	eP	32	51.80	-0.2
BAF	87.29	330	P	32	52.60	0.0
ALQ	87.35	49	ePc	32	54.00	0.7
	1.0s	51.80nm			5.7mb	
	Z 18s	9.11um			6.2Msz	
DLE	87.36	340	eP	32	52.40	-0.3
	1.2s	140.00nm			6.1mb	
BSF	87.38	330	eP	32	52.80	-0.3
	1.1s	30.50nm			5.5mb	
HAU	87.42	331	eP	32	52.90	-0.3
	0.8s	18.10nm			5.4mb	
DCN	87.51	341	eP	32	52.90	-0.6
	1.3s	130.00nm			6.0mb	
ECP	88.30	340	eP	32	56.80	-0.4
	1.2s	155.00nm			6.2mb	
DIX	88.51	329	P	32	57.50	-1.3
FIR	88.57	325	Pc	33	04.00	5.3X
ARO	88.70	283	iPc	33	05.50	5.6X
MNS	88.94	323	iP	33	00.00	-0.5
		i	33	05.50	
		e	36	39.00	
LOR	89.01	331	iPd	33	00.80	0.0
	1.1s	37.30nm			5.6mb	
LBF	89.20	331	iPd	33	01.50	-0.2
	0.6s	17.00nm			5.5mb	
SSF	89.32	332	iPd	33	02.40	0.1
	1.0s	26.00nm			5.5mb	
RMP	89.36	323	eP	33	01.50	-1.1
		ePP	36	36.00	
		iS	44	00.00	
FLN	89.38	335	eP	33	04.10	1.6
	0.9s	29.40nm			5.6mb	
SSC	89.40	334	iPd	33	02.60	0.0
	0.8s	29.40nm			5.6mb	
SMF	89.53	331	eP	33	03.10	-0.2
	1.1s	35.70nm			5.6mb	
VAL	89.57	342	eP	33	00.00	-3.3X
		(SKS)	43	32.00	
		ScS	43	54.00	
		LQ	56	44.00	
		LR	02	04.00	
AVF	89.60	331	iPd	33	03.70	0.1
	0.7s	27.30nm			5.6mb	
GRR	89.83	335	iPd	33	05.00	0.4
	1.1s	60.50nm			5.8mb	
LPF	90.20	335	iPd	33	06.90	0.6
	1.2s	68.00nm			5.8mb	
SSB	90.35	330	eP	33	06.50	-0.7
SGR	90.43	334	(P)	33	14.00	6.6X
TCF	90.46	332	iPd	33	08.00	0.4
	1.4s	55.30nm			5.6mb	
CVF	90.62	326	eP	33	07.80	-0.6
	0.9s	18.00nm			5.4mb	
LSF	90.76	332	eP	33	09.40	0.4
	1.7s	108.00nm			5.9mb	
SPF	90.81	328	eP	33	09.00	-0.3
	0.9s	34.30nm			5.7mb	
LRG	91.05	328	iPd	33	10.20	-0.1
	0.9s	44.30nm			5.8mb	
LMR	91.08	328	iPd	33	10.30	-0.2
	1.1s	48.60nm			5.8mb	
MFF	91.09	333	iPd	33	11.10	0.6
	1.1s	50.00nm			5.8mb	
RJF	91.55	332	iPd	33	13.20	0.6
	1.3s	50.20nm			5.7mb	
CAF	91.65	331	iPd	33	14.30	1.2
LFF	92.16	332	iPd	33	16.50	1.1
	0.9s	42.50nm			5.9mb	
LPO	92.20	332	iPd	33	16.60	1.0
	1.1s	25.70nm			5.6mb	
CHI	92.37	33	P	33	22.00	5.6X
TUL	92.90	42	ePc	33	19.70	0.7
	1.2s	78.70nm			6.0mb	
	Z 20s	7.95um			6.2Msz	
RLO	93.13	41	eP	33	20.50	0.5
MLS	93.68	331	ePc	33	22.60	0.1
EPF	93.91	331	eP	33	23.90	0.3
	0.8s	21.80nm			5.6mb	
FVM	94.14	37	ePc	33	24.20	-0.5
JCT	94.48	48	iP	33	27.00	0.6
	1.0s	12.50nm			5.3mb	
	Z 20s	10.60um			6.3Msz	
		i	37	12.50	
		e	44	12.00	
MIM	96.28	20	eP	33	35.80	1.4
TRM	96.84	21	eP	33	38.60	1.7
TOL	98.32	332	eP	33	43.00	-0.7
		iS	45	12.00	
		iSS	51	55.00	
PTO	98.84	336	P	33	43.00	-2.9
TKL	99.19	34	eP	33	48.00	0.3
MAL	101.19	331	ePdiff	34	01.00	4.5X
		iPP	38	08.00	
		iSKS	44	36.00	
		iS	45	28.00	
LIS	101.20	335	Pdiff	34	00.00	3.6X
		ePP	38	08.00	
		S	45	20.00	
		LR	10	00.00	
SFS	102.13	332	iPdiff	34	05.00	4.4X
		iPP	38	14.00	
		eS	45	42.00	
		e	57	30.00	
BNG	112.05	292	ePKPd	38	44.20	1.9
	1.0s	7.90nm				
SBA	113.64	174	iPKP	38	45.20	1.7
MTD	113.74	266	ePKP	38	44.00	-1.5
CIR	115.86	262	ePKP	38	49.00	-0.4
MAW	116.80	205	ePKP	38	51.00	1.3
BUL	117.86	264	iPKPc	38	53.50	0.1
	0.8s	7.09nm				
PRE	120.83	259	iPKPc	39	00.50	1.6
	1.0s	39.00nm				
	Z 20s	12.80um			6.6Msz	
KSR	121.92	259	iPKPc	39	00.30	-0.7
	1.0s	16.00nm				
SPA	124.64	180	iPKPc	39	05.60	0.7
	0.9s	29.40nm				
	Z 20s	6.60um			6.3Msz	
KDS	125.65	325	iPKP	39	07.60	-0.7
KIC	126.80	313	iPKP	39	10.50	-0.1
BCR	128.33	43	ePKP	39	13.00	-0.5
WIN	128.45	268	PKP	38	47.20	-26.5X
CAR	128.54	34	ePKP	39	14.80	0.8
FUO	129.27	44	ePKP	39	18.00	2.3
BOG	129.77	45	ePKP	39	20.50	3.9X
BOCO	129.81	45	ePKP	39	19.00	2.2
PSO	130.44	52	ePKP	39	19.00	1.0
TRN	130.72	27	ePKP	39	18.70	0.8
	1.0s	40.00nm				
OAO	130.73	54	PKP	39	23.00	4.5X
NCE	131.06	54	ePKP	39	23.00	3.7X
SNA	138.88	199	PKP	39	25.00	-6.7X
NNA	140.14	64	ePKP	39	30.50	-5.2X
	Z 20s	9.75um			6.6Msz	
		e	39	34.50	
HUA	141.29	63	ePKP	39	32.00	-6.3X
AIA	146.43	162	e(PKP)	39	51.00	6.1X
ARE	146.98	64	ePKP	39	50.00	2.3
		eSS	02	12.00	
ZOBO	149.30	60	PKP	39	52.60	0.9
LPB	149.49	60	PKPd	39	53.80	2.0
	2.1s	1720.00nm				
ANT	151.93	75	PKP	40	02.00	7.3X
		i	40	22.00	
		PP	43	59.00	
		SS	03	22.00	
		SSS	09	14.00	
CPP	153.63	82	PKP	40	02.50	5.4X
TLL	154.27	88	ePKP	40	05.00	6.8X
PEL	155.15	95	PKP	40	04.00	5.0X
SAN	155.23	95	ePKP	40	07.00	8.0X
SLA	156.32	72	PKPc	40	09.20	8.2X
MDZ	156.60	93	e(PKP)	40	09.10	8.1X
CFA	156.79	90	PKP	40	03.50	2.3
CYA	157.76	80	PKPc	40	07.80	5.3X
BAO	159.81	21	e(PKP)	40	07.00	1.8
		e	41	46.00	
BAA	165.39	94	PKP	40	17.10	7.2X
		PP	45	02.70	
LPA	165.87	95	ePKP	40	38.00	27.7X
	Z 20s	7.80um				
RDJ	167.92	11	PKP	40	18.00	5.8X
		e	41	24.80	
		eSKP	43	17.20	
		iPP	45	12.00	
		eSKS	48	28.40	

S.D. = 1.2 on 436 of 506 obs.

JUL 29, 1980 14h 58m 41.09± 0.06s
29.656 N ± 1.7km 81.108 E ± 1.2km
DEPTH = 18.8km (13 depth phases)
5.1mb (65 obs.) 6.6Msz (22 obs.)
NEPAL (310)

29d 14h

One hundred fifty to 200 people killed, many injured and extensive damage in western Nepal. At least 13 killed, 40 injured and damage in the Pithoragarh area, India. Felt strongly at Kathmandu, Nepal and in the Delhi area, India.

NDI	3.54	255	Pn-	59	36.50	0.2
			iSn	00	18.00	
VAR	4.66	158	Pn	59	54.60	2.4
			Sn	00	55.60	
BOK	7.16	143	Pn	00	30.80	3.4X
LSA	8.74	87	Pc	00	51.10	1.2
			S	02	29.50	
SHL	10.39	111	Pc	01	09.00	-3.3X
			S	03	02.00	
KSH	10.65	338	Pc	01	13.80	-2.0
KHO	11.16	317	eP	01	18.00	-4.9X
			iS	03	29.60	
KAAO	11.33	299	iPc	01	22.00	-3.2X
KBL	11.33	299	iPc	01	22.20	-3.0X
VIS	12.05	170	P	01	31.00	-3.8X
			S	03	36.00	
QUE	12.30	276	eP	01	34.80	-3.5X
			eS	03	50.00	
HYB	12.41	191	ePd-	01	34.00	-5.6X
			e	02	00.00	
			eS	03	40.40	
			e	04	56.00	
NRN	12.46	342	Pc	01	38.50	-2.1
			eS	03	55.00	
GAR	12.89	319	eP	01	40.00	-6.1X
			eS	04	11.60	
POO	12.90	212	Pd	01	49.20	3.0X
			PP	01	56.00	
			S	04	14.00	
			SS	04	27.00	
PRZ	12.99	351	Pc	01	45.80	-1.6
			eS	04	09.40	
BOM	13.11	217	Pd	01	43.00	-5.9X
			S	04	03.00	
ANR	13.17	330	ePc	01	44.00	-5.7X
			eS	04	09.00	
DSH	13.53	314	Pc	01	48.50	-6.0X
			iS	04	15.50	
TLG	13.91	349	P	01	58.00	-1.5
FRU	14.15	340	Pc	02	00.50	-2.1
			iS	04	37.00	
WMO	15.08	19	Pc	02	14.10	-0.7
TAS	15.09	324	ePc	02	06.00	-8.8X
			iS	04	57.00	
SAM	15.30	315	ePc	02	12.00	-5.7X
			iS	04	59.80	
GOA	15.62	207	Pd	02	16.00	-5.9X
GBA	16.33	193	Pc	02	21.20	-9.8X
	1.2s	389.00nm			5.4mb	
MDR	16.60	183	P	02	42.00	7.6X
			S	05	31.50	
TGI	19.01	286	iPc	03	04.10	-0.4
MAIO	19.29	296	Pc+	03	06.20	-1.5
			eS	06	35.60	
			e	08	00.00	
CHG	19.49	120	iPc	03	08.10	-2.0
	1.0s	343.00nm			5.6mb	
			eS	06	40.00	
CHTO	19.49	120	iPc	03	07.50	-2.6
KOD	19.62	191	eP	03	08.00	-3.9X
			PPP	03	42.00	
			eS	07	04.00	
KMI	19.72	98	Pc	03	12.20	-0.7
			iS	06	52.00	
CDU	19.83	81	Pc	03	13.40	-0.3
LZH	20.12	66	Pc	03	16.60	-0.3
			S	07	00.60	
BDT	20.51	123	iPc	03	20.30	-0.5
ASH	20.61	300	Pc	03	20.50	-1.2
SEM	20.74	358	Pc	03	22.00	-1.0
PBA	20.91	146	P	03	36.00	11.0X
			S	07	32.00	
KAT	22.53	302	Pc	03	41.50	0.4
			iS	07	47.00	
GYA	22.76	92	Pc	03	44.20	0.5
			S	07	51.70	
SHD	22.91	294	eP	03	44.00	-1.1
ELT	23.88	8	Pc	03	55.80	1.8
UER	23.93	20	Pc	03	56.00	1.4
PCT	23.93	124	eP	03	56.90	2.0
XAN	23.99	72	Pc	03	55.50	0.0
			sP	04	07.90	
SHI	24.82	277	ePc	04	05.00	1.4
NVS	25.28	3	Pc	04	07.00	-0.5
			iS	08	29.00	
TEH	25.68	291	eP	04	16.00	4.3X
BTO	25.93	57	Pc	04	15.10	1.1
			pP	04	22.10	25km
MOY	26.51	28	Pc	04	21.00	2.0
ZAK	26.59	33	Pc	04	21.50	1.7
BSI	27.52	148	eP	04	26.50	-2.1
BAK	27.58	301	Pc	04	32.00	3.1X
			S	09	14.00	
IRK	28.36	31	Pc	04	36.90	1.0
			eS	09	29.50	
WHN	28.72	80	Pc	04	39.50	0.2
			pP	04	46.50	24km
			sP	04	51.50	
KER	29.13	288	ePc	04	43.00	-0.2
GZH	29.55	95	P	04	46.60	-0.2
			sP	04	58.60	
TAB	29.94	296	iPc	04	52.00	1.6
GRS	30.11	298	Pc	04	52.00	0.1
			iS	09	50.80	
BJI	30.41	61	iPc+	04	55.50	1.1
	1.5s	642.00nm			6.2mb	
			sP	05	08.00	
			eS	09	53.00	
HKC	30.54	96	P	04	55.00	-0.6
			S	10	00.00	
SVE	30.72	338	Pc	04	58.00	1.1
			iS	10	00.00	
TIA	30.80	68	Pc	04	58.30	0.4
			sP	05	10.60	
			S	10	01.60	
ARU	31.10	336	eP	05	01.00	0.8
			eS	10	06.50	
IPM	31.26	139	iPc	05	01.30	-0.7
	1.1s	165.00nm			5.8mb	
GRO	31.34	306	Pc	05	03.00	0.6
			iS	10	08.00	
BHD	31.43	286	iPd	05	03.50	0.1
PSI	31.70	144	ePd	05	04.00	-1.9
	0.8s	52.30nm			5.5mb	
LEN	32.18	300	Pc	05	12.00	1.9
			iS	10	24.00	
NJ2	32.39	76	Pc	05	12.30	0.5
			pP	05	19.20	24km
			sP	05	24.20	
			PcP	08	00.20	
			S	10	25.20	
BKR	32.57	302	Pc	05	15.70	2.2
			iS	10	32.70	
PYA	33.35	306	Pc	05	19.50	-0.5
			eS	10	37.50	
QZH	33.54	89	Pc	05	22.10	0.2
			S	10	42.60	
SSE	34.48	77	iPc	05	30.20	0.3
	Z 20s	136.00um			6.7Msz	
	N 20s	84.00um				
	E 20s	106.00um				
			S	11	02.00	
KGM	34.66	138	ePc	05	32.20	0.6
	1.3s	465.00nm			6.2mb	
			(S)	08	06.00	
PPI	35.15	145	eP	05	36.20	0.4
			pP	38	20.00	
			iS	38	44.50	
TCU	35.59	89	P	05	39.20	-0.3
ANP	36.02	87	P	05	43.00	-0.2
			S	11	26.00	
BOD	36.29	30	Pc	05	45.00	0.0
HEN	36.35	93	eP	05	49.00	3.1X
TTN	36.44	91	P	05	53.00	6.3X
HWA	36.46	89	P	05	35.70	-11.2X
			eS	11	24.50	
PIP	37.65	98	iPc	05	57.70	0.8
	1.1s	233.00nm			5.9mb	
CN2	37.79	56	Pc	05	58.50	0.7
			pP	06	06.00	25km
			sP	06	10.50	
			PP	07	30.50	
SZP	37.84	100	ePc	06	00.00	1.5
	1.0s	414.00nm			6.2mb	
KVT	38.09	300	P	07	01.50	61.1X
BAG	38.45	101	iPc+	06	04.00	0.1
	1.5s	500.00nm			6.1mb	
			iS	12	00.00	
MAN	39.70	103	iPd	06	14.40	0.4
SIM	39.81	306	Pc	06	15.50	0.8
			isP	06	20.00	
			eS	12	18.00	
			isS	12	22.00	
ARO	39.86	251	iPc	06	12.30	-3.2X
EIL	39.92	282	Pc	06	17.00	1.2
NRI	39.99	4	Pc	06	14.00	-1.8
			iS	12	22.00	
PGP	40.16	105	iPc	06	17.30	-0.5
	1.0s	76.00nm			5.4mb	
MOS	40.25	323	Pc	06	18.00	-0.1
			iS	12	28.00	
PPR	40.31	112	iPd	06	18.80	-0.2
	1.2s	421.00nm			6.0mb	
			eS	12	13.50	
ANTO	40.55	298	iPc	06	21.00	0.1
KKM	40.56	118	iPc	06	23.30	2.0
	1.0s	499.00nm			6.2mb	
OBN	40.59	322	Pc	06	21.00	0.1
			iS	12	24.00	
MGN	41.01	299	P	06	26.30	1.6
BCK	42.39	294	P	06	35.30	-0.8
VLA	42.42	57	Pc	06	36.50	0.4
			iS	12	56.50	
GPA	42.45	299	P	06	35.30	-1.1
KLT	42.59	299	P	06	38.00	0.2
ALT	42.66	297	P	06	38.00	-0.3
LGP	42.68	103	ePd	06	38.50	0.0
HLW	42.93	283	iPc	06	40.00	-0.4
	Z 12s	2.30um			5.3MszX	
			iS	13	04.00	
ELL	43.00	293	P	06	42.10	1.0
BKT	43.35	298	P	06	44.30	0.3
ISK	43.37	300	P	06	44.60	0.7
SHK	43.58	70	iPc	06	46.00	0.3
	1.4s	484.00nm			6.1mb	
KIS	43.64	308	Pc	06	46.00	0.0
			isP	06	48.00	
			ipP	06	50.00	13km
			iS	13	14.00	
DST	43.77	298	P	06	47.60	0.4
CTT	43.84	300	P	06	48.10	0.3
YER	44.25	294	P	06	51.50	0.3
EDC	44.31	299	P	06	51.40	-0.2
DMK	44.33	301	P	06	51.90	0.2
LEM	44.33	141	iP	06	54.50	2.4
BIR	44.45	307	P	06	55.00	2.4
AAE	44.58	251	eP	06	57.40	3.0X
PLP	44.73	105	iPc	06	55.20	0.1
MFT	44.73	299	P	06	54.80	-0.2
FOC	44.73	306	eP	07	56.00	61.1X
IZM	44.93	296	P	06	56.20	-0.4
VRI	45.06	307	eP	06	58.00	0.5
YAK	45.13	30	Pc	06	57.40	-0.3
			eS	13	26.20	
PUL	45.33	327	Pc	07	00.00	0.6
			eS	13	40.00	
BUC	45.49	305	eP	07	03.00	2.1
EZN	45.53	298	P	07	01.50	0.3
BUC1	45.54	304	iP	07	04.00	2.7
MLR	45.60	306	eP	07	04.00	2.0
			ePP	08	50.00	
			ePP	08	51.00	
			eS	13	26.20	
OIC	45.80	70	eP	07	04.00	0.4
ABU	45.88	69	ePc	07	04.00	-0.1
BKB	45.93	126	iPd	07	07.50	2.8
	1.0s	610.00nm			6.5mb	
DIM	45.94	301	eP	07	05.00	0.5
PVL	46.19	303	Pc	07	06.00	-0.4
CMP	46.24	306	eP	07	08.00	1.1
			i	07	25.00	67kmX
DRA	46.80	305	eP	07	12.00	0.7
LVV	47.04	312	Pc	07	13.80	0.7
			iS	14	03.00	
APA	47.22	337	Pd	07	14.50	0.3
			iS	14	08.00	
CJR	47.24	308	eP	07	16.00	1.2
DAV	47.40	109	Pc	07	17.00	0.7
			iS	14	12.00	
PPH	47.49	108	ePc	07	17.30	0.3
SOF	47.56	302	Pc	07	18.00	0.6
DEV	47.73	307	ePd	07	20.00	1.4

TABLE 4-13

29d 15h

MAT		47.73	66	iPc+	07 18.30	-0.5
		1.5s	306.00nm			6.1mb
				eS	14 10.00	
ATH		47.75	296	ePc	07 19.00	0.1
				eS	14 12.00	
KJF		47.95	332	iPc+	07 20.00	0.0
		0.6s	157.00nm			6.2mb
				ePP	09 16.00	
TRT		47.95	136	iPc	07 19.00	-1.6
		1.3s	668.00nm			6.5mb
UZH		48.13	310	Pc	07 23.50	1.8
				iS	14 23.00	
VAY		48.24	301	iP	07 21.80	-0.8
				i	07 27.50	19km
NUR		48.26	326	Pc+	07 22.60	0.2
				i	07 25.60	10km
				ePP	09 14.00	
				eS	14 20.00	
SSR		48.58	305	P	07 26.00	0.7
DDR		48.61	67	eP	07 24.70	-0.9
SRY		48.74	67	eP	07 25.90	-0.7
OYM		48.75	67	eP	07 25.50	-1.2
TIM		48.91	307	P	07 28.00	0.3
SKO		49.02	302	iPc	07 28.00	-0.6
				iPP	09 32.00	
				iS	14 30.00	
WAR		49.07	315	ePc	07 28.00	-0.8
	Z	18s	50.00um			6.6Msz
				e	09 16.00	591kmX
				e	14 36.00	
TIK		49.28	18	ePc	07 30.00	-0.2
				esP	07 33.00	
				eS	14 34.00	
JOS		49.30	310	Pc	07 30.80	0.1
TSK		49.30	66	eP	07 29.00	-1.9
SAP		49.33	57	iP	07 31.50	0.6
				eS	14 38.00	
SOD		49.49	336	eP	07 32.00	0.2
SPC		49.49	311	iPc	07 31.30	-1.1
	Z	13s	22.50um			6.4MszX
				e(S)	14 47.00	
KYS		49.52	67	eP	07 32.10	-0.4
MIZ		49.63	62	iPc	07 33.60	0.2
				S	14 43.00	
KRA		49.69	312	iPc	07 33.40	-0.2
		1.5s	172.00nm			5.8mb
	Z	20s	21.20um			6.1Msz
	N	20s	36.80um			
	E	20s	17.90um			
				i	07 36.90	12km
				i	08 09.00	
				i	09 29.00	
				iS	14 43.00	
				i	17 25.00	
				i	18 11.00	
PSZ		49.74	309	P	07 34.30	0.1
MNI		50.13	116	ePd	07 37.00	-0.4
		1.2s	381.00nm			6.3mb
TIR		50.26	301	P	07 36.90	-1.3
KEV		50.27	338	Pc+	07 38.80	1.0
				ePP	09 28.00	
				ePcS	12 58.00	
				eS	14 52.00	
BUD		50.35	309	Pc	07 38.60	-0.1
MKS		50.56	127	iPd	07 39.50	-1.2
		1.0s	399.00nm			6.3mb
SRO		50.81	309	iPc	07 43.30	1.1
				PP	09 40.00	
				S	14 56.00	
				e	33 00.00	
UME		51.01	330	Pc	07 43.30	-0.2
				i	07 43.80	2kmX
				iS	14 59.20	
UPP		51.60	325	iP	07 47.40	-0.6
		1.0s	600.00nm			6.5mb
				iPP	09 49.00	
				iS	15 07.00	
LCI		51.84	300	P	07 48.60	-1.5
KIR		51.89	335	Pc	07 49.40	-0.8
				i	07 50.10	2kmX
KHE		51.90	355	Pc	07 55.00	4.9X
				iS	15 18.00	
SOP		52.00	309	P	07 51.00	-0.3
KSP		52.01	313	iPc	07 51.20	-0.1
				eS	15 15.50	
VKA		52.12	310	iPc	07 52.80	0.6
				i	09 43.00	591kmX
				P'P'	39 12.00	
NAI		52.27	242	eP	07 55.90	1.9
		2.0s	618.00nm			6.2mb
TRO		52.89	337	iPc	07 57.40	-0.2
ORI		53.02	300	P	08 00.00	1.0
PRU		53.17	312	iPc	08 00.00	0.1
		1.5s	324.00nm			6.1mb
	N	19s	38.00um			
	E	18s	9.70um			
				iPP	10 04.00	
				iS	15 31.00	
PRA		53.24	312	iPc	08 01.00	0.6
				PP	10 02.00	
				S	15 36.00	
				ScS	17 54.00	
				SS	19 18.00	
FOG		53.46	302	P	08 04.50	2.4
BRG		53.49	313	iPc	08 02.20	-0.1
		1.3s	240.00nm			6.0mb
	Z	18s	28.80um			6.4Msz
	N	18s	11.10um			
	E	18s	29.00um			
				iS	15 34.00	
MOA		53.53	310	P	08 01.00	-1.6
				i	08 05.00	13km
				i	08 22.00	
LJU		53.54	307	ePc	08 02.60	-0.1
				ePcP	09 07.50	
				ePP	09 58.50	
				eS	15 29.50	
HFS		53.59	325	iP	08 02.20	-0.7
		0.7s	258.00nm			6.3mb
	Z	14s	136.00um			7.2MszX
KMR		53.60	310	iPc	08 03.00	-0.1
KUR		53.77	54	Pc	08 04.00	-0.3
				iS	15 44.00	
KHC		53.86	311	iPc	08 04.90	-0.2
		1.2s	162.00nm			5.9mb
	Z	20s	10.30um			5.9Msz
	N	23s	16.30um			
	E	20s	9.20um			
				e	10 09.50	701kmX
				S	15 40.00	
				e	07 17.50	
BRN		53.87	315	iPc	08 05.80	0.9
RCI		54.01	298	P	08 06.20	0.0
				eS	15 37.60	
CLL		54.06	314	iPc	08 05.80	-0.6
				i	08 16.00	34kmX
				i	08 30.00	
				PcP	09 08.00	
				PP	10 12.00	
				PPP	11 08.00	
				PcS	13 17.00	
				S	15 42.00	
				P'P'	38 30.00	
TRI		54.12	307	iPc	08 06.00	-0.9
				iPP	10 10.00	
				e	13 14.00	
				iS	15 42.00	
				i	17 58.00	
COP		54.20	319	ePc	08 07.00	-0.3
		1.0s	200.00nm			6.1mb
				iPP	10 07.00	
				iS	15 42.00	
				iPS	17 58.00	
				iSS	19 22.00	
DUI		54.23	302	P+	08 07.50	-0.3
				iS	15 44.70	
WET		54.32	311	iPc	08 08.00	-0.4
OVO		54.43	301	P	08 05.00	-4.3X
ALP		54.69	304	P	08 11.00	-0.1
MGD		54.73	35	Pc	08 10.00	-1.3
				isP	08 14.00	
NYA		54.85	264	Pc	08 12.30	-0.5
HOF		54.85	313	iPc	08 12.10	-0.2
				iS	15 55.00	
AQU		54.89	303	P+	08 12.80	0.1
				iS	15 47.20	
PRO		54.97	305	P+	08 14.60	1.4
				eS	15 56.10	
MOX		54.99	313	iPc	08 13.00	-0.3
		1.6s	407.00nm			6.2mb
	Z	16s	33.80um			6.5MszX
	E	13s	21.20um			
				ePP	10 18.00	
				iS	15 55.00	
				eScS	18 00.00	
NAO		55.03	326	P	08 12.10	-1.4
		1.0s	170.00nm			6.0mb
GRF		55.34	312	iPc	08 16.10	0.3
		2.8s	1950.00nm			6.6mb
	Z	14s	30.30um			6.5MszX
				iS	16 01.50	
MNS		55.41	303	P+	08 15.50	-0.8
				iS	16 03.20	
FUR		55.49	310	iPc	08 16.70	-0.2
				eS	16 06.00	
RMP		55.50	302	P+	08 16.00	-1.1
				iS	15 58.00	
SEY		55.56	32	Pc	08 17.30	0.0
				eS	16 01.30	
KON		55.65	324	iPc+	08 17.00	-0.9
				S	16 00.00	
AAI		55.94	118	ePc	08 19.30	-1.3
		0.6s	64.60nm			5.8mb
FIR		56.18	305	Pc	08 22.00	0.1
				S	16 10.00	
SIE		56.22	305	P+	08 27.20	4.9X
PRT		56.28	305	P	08 24.00	1.4
				ipP	08 36.00	42kmX
				iS	16 15.50	
ERC		56.38	298	P	08 21.00	-2.4
SAL		56.38	307	P+	08 23.50	0.2
				iPS	16 23.50	
STU		56.77	311	iPc+	08 25.60	-0.6
		1.0s	320.00nm			6.3mb
	Z	20s	29.80um			6.4Msz
				eS	16 20.00	
KUPT		56.93	127	eP	08 24.60	-3.0X
TNS		57.05	313	eP	08 27.50	-0.7
PCN		57.07	307	P-	08 29.50	1.3
KBS		57.12	348	iPc	08 27.30	-1.0
				i	08 30.00	9km
ZUL		57.51	310	P	08 29.50	-1.9
BNS		57.74	314	iPc	08 32.80	-0.1
				iPP	20 46.00	
				eS	26 34.00	
BER		57.76	325	iPc	08 32.70	-0.2
WIT		57.80	316	iPc	08 33.50	0.3
				e	08 46.00	44kmX
WTS		57.82	315	iPc	08 33.40	0.0
				i	08 51.50	70kmX
WLS		58.04	311	P+	08 34.00	-1.1
CDF		58.09	311	eP	08 35.10	-0.4
		0.9s	49.10nm			5.5mb
ORO		58.13	308	P	08 25.00	-10.8X
CVF		58.13	304	eP	08 35.10	-0.7
		0.9s	80.10nm			5.8mb
ECH		58.20	311	P+	08 35.30	-0.9
				ePP	10 42.00	
				ePPP	11 44.00	
				iS	16 36.00	
BAF		58.38	310	P+	08 37.00	-0.5
DIX		58.43	308	Pc	08 36.50	-1.6
SKR		58.45	46	eP	08 34.00	-3.9X
ROB		58.48	306	P	08 36.00	-2.2
HEE		58.50	314	iPc	08 38.00	-0.2
				i	08 52.10	51kmX
BSF		58.51	310	iPc	08 38.30	-0.2
MEM		58.53	314	ePc	08 37.00	-1.4
				e	09 07.00	125kmX
				PcP	09 32.00	
WLF		58.60	313	ePc	08 41.00	2.1
				PP	10 56.00	
				S	16 47.00	
				PS	16 57.00	
PNI		58.73	307	P	08 37.50	-2.5
HAU		58.77	311	iPc	08 39.00	-1.2
DBN		58.80	316	iPc	08 40.00	-0.3
	N	20s	58.70um			
	E	19s	21.70um			
				ePP	10 52.00	
				iS	16 45.00	
				iScS	18 29.00	
				i	22 17.00	
DOU		59.51	313	Pc+	08 44.90	-0.3
				e	09 13.40	117kmX
				PP	11 04.00	
				e	12 11.00	
				S	16 51.00	
UCC		59.53	314	Pd-	08 45.00	-0.3
				e	09 13.10	115kmX
				PcP	09 32.00	

TABLE 4-14

29d 15h

Sta	Comp	Dist	Az	Phase	Time	Res
				S	16 56.00	
				ScS	18 36.00	
PET		59.62	43	eP	08 42.00	-3.9X
				esP	08 44.00	
LMR		59.65	305	eP	08 46.20	0.0
		1.2s	117.00nm			5.9mb
NPA		60.07	228	P	08 50.00	0.5
CDR		60.09	306	P	08 48.80	-0.5
				pP	08 59.60	36kmX
LBF		60.56	310	iPc	08 51.70	-0.8
LOR		60.57	310	iPc	08 51.60	-1.0
GUMO		60.71	91	e(P)	08 52.50	-1.5
				e(S)	17 05.00	
SMF		60.73	310	iPc	08 53.20	-0.4
SSF		60.85	310	iPc	08 54.00	-0.5
AVF		61.02	310	iPc	08 55.10	-0.5
PYM		61.50	309	Pc	08 58.50	-0.5
NAU		61.55	144	Pc	08 58.20	-1.2
				i	09 03.40	17km
MZF		61.67	309	iPc	09 00.00	-0.1
TCF		61.91	310	iPc	09 01.70	0.0
CAF		62.36	308	iPc	09 04.70	0.0
LSF		62.37	310	iPc	09 04.30	-0.4
RJF		62.63	309	iPc	09 06.80	0.4
MBL		62.79	139	Pc	09 05.90	-1.9
SSC		62.85	312	iPc	09 07.10	-0.7
EDI		62.90	321	iPc	09 07.50	-0.5
		0.8s	148.00nm			6.2mb
EBH		63.00	321	iPc	09 08.10	-0.6
		0.9s	122.00nm			6.1mb
EKA		63.02	320	Pd	09 08.80	-0.1
		0.9s	182.00nm			6.2mb
LPO		63.02	308	iPc	09 09.10	0.1
		0.7s	59.70nm			5.9mb
FLN		63.04	313	iPc	09 08.20	-0.9
		0.9s	72.20nm			5.8mb
ESK		63.05	320	iPc	09 08.50	-0.6
		1.0s	200.00nm			6.2mb
				e	12 33.00	
EAU		63.06	321	iPc	09 08.80	-0.4
		1.1s	228.00nm			6.2mb
LFF		63.26	308	iPc	09 10.70	0.1
GRR		63.38	312	iPc	09 10.40	-0.9
MFF		63.40	310	iPc	09 10.80	-0.7
LPF		63.59	312	iPc	09 12.00	-0.8
		1.0s	66.30nm			5.7mb
DAG		63.60	345	iPc	09 10.80	-1.6
		1.2s	169.00nm			6.1mb
				iS	17 45.00	
SGR		63.60	312	ePc	09 11.90	-0.9
BNG		64.04	260	iPc	09 14.50	-1.8
		0.7s	293.00nm			6.5mb
BCAO		64.05	260	ePc	09 14.00	-2.3
EPF		64.08	306	iPc	09 15.20	-0.9
MTN		64.11	124	Pd	09 15.10	-1.5
KNA		64.42	128	Pd	09 17.30	-1.2
TET		64.61	232	Pc	08 24.00	-55.8X
JAY		65.25	108	ePc	09 22.00	-2.1
		1.0s	85.90nm			5.9mb
DDK		65.33	319	iPc	09 23.60	-0.3
		1.5s	640.00nm			6.6mb
DLE		65.47	319	iPc	09 24.60	-0.3
		1.5s	540.00nm			6.5mb
DMU		65.50	319	iPc	09 25.00	-0.1
		1.0s	610.00nm			6.7mb
ECP		65.70	318	iPc	09 26.00	-0.3
		1.5s	990.00nm			6.7mb
DCN		65.88	319	iPc	09 27.40	-0.1
		1.5s	820.00nm			6.7mb
ALI		66.16	302	iPd	09 30.00	0.5
				iS	18 18.00	
LGR		66.25	307	iPc	09 30.00	-0.1
				iPP	11 57.40	
				iS	18 20.50	
MTD		66.42	233	P+	09 31.00	-0.6
MEK		66.46	144	Pc	09 29.30	-2.2
ILT		66.58	24	Pc	09 31.50	-0.3
				eS	18 22.00	
KTG		66.61	339	iPc	09 32.80	0.9
		1.1s	96.00nm			5.9mb
				iPP	12 02.00	
				iS	18 28.00	
ALE		66.68	355	eP	09 32.00	-0.3
AKU		67.02	334	iPc+	09 35.50	0.9
		0.9s	1650.00nm			7.2mb X
				e	11 54.40	728kmX
KRI		67.83	234	P+	09 40.00	-0.6

Sta	Comp	Dist	Az	Phase	Time	Res
GUD		68.03	305	iP	09 41.70	0.1
ALM		68.15	301	iPc	09 41.50	-0.7
		1.4s	8.40nm			4.7mb X
	N	15s	1.00um			
				iPP	12 17.10	
TOL		68.23	304	Pc	09 43.00	0.3
				i	18 42.00	
				iScS	19 48.00	
				iSS	23 02.00	
SMY		68.71	41	eP	09 44.50	-0.8
CRT		68.87	302	iPc	09 46.50	-0.3
				iS	19 13.00	
REY		69.12	333	eP	09 49.30	1.6
CIR		69.37	229	P+	09 49.00	-0.9
WAB		69.41	109	P	09 51.00	0.4
SWV		69.63	149	Pc	09 49.20	-2.0
MAL		69.65	301	iPc	09 50.00	-1.4
				ePP	12 17.00	
				iS	18 56.00	
MUN		69.77	149	iPc	09 49.50	-2.6
		1.0s	440.00nm			6.5mb
	Z	20s	29.00um			6.5Msz
	N	20s	11.00um			
	E	20s	17.00um			
STS		70.27	309	eP	09 55.00	-0.1
WBN		70.55	137	Pc	09 55.90	-1.1
MOM		70.59	104	Pc	09 58.30	0.8
BUL		70.77	232	P+	09 57.00	-1.6
				iS	19 08.00	
PTO		70.98	307	iPc	09 59.50	0.1
				iS	19 12.00	
NWAO		71.04	148	iPc	09 57.60	-2.2
		0.9s	450.00nm			6.6mb
	Z	20s	10.00um			6.1Msz
	N	20s	10.00um			
	E	20s	11.00um			
WRA		71.14	127	Pd	10 00.50	-0.2
		1.2s	630.00nm			6.6mb
WB2		71.15	127	Pc	09 59.30	-1.5
				eS	19 11.40	
KLG		71.32	144	Pc	09 59.80	-1.8
LIS		72.33	305	Pc	10 07.90	0.3
				iPP	12 58.70	
				S	19 36.00	
LML		72.80	108	P	10 10.50	-0.2
ASP		73.38	130	Pc	10 13.50	-0.4
				e	19 37.00	
MBC		73.57	5	iPc	10 14.80	0.6
JOZ		73.65	224	Pd	10 15.00	-0.3
PMG		74.41	111	Pc+	10 20.10	0.1
LMG		74.94	110	eP	10 23.00	-0.3
ISO		75.33	124	Pc	10 25.00	-0.2
				e	20 01.00	
RAB		75.76	103	Pc	10 28.00	0.2
				eS	20 12.00	
KSR		75.82	229	iPc	10 24.00	-4.1X
		1.1s	160.00nm			6.0mb
IMA		75.84	20	iPc	10 27.50	-0.1
RES		75.89	359	eP	10 27.50	0.0
		0.9s	124.00nm			6.0mb
GDH		76.00	345	iPc	10 28.00	-0.2
		1.0s	156.00nm			6.0mb
	Z	20s	49.00um			6.8Msz
				iPP	13 18.00	
				iPPP	15 11.00	
				iS	20 07.00	
PRY		76.17	228	P	10 29.70	-0.4
ESA		77.59	109	Pc	10 38.70	0.7
COL		78.39	19	iP	10 41.80	0.2
		1.2s	253.00nm			6.1mb
				e	13 43.00	
				eS	20 38.00	
FBA		78.39	19	iPc	10 41.70	0.1
INK		79.02	12	iPc	10 44.40	-0.5
		1.2s	377.00nm			6.3mb
CTA		79.88	120	P	10 50.10	-0.3
				iS	20 51.00	
HVD		79.95	226	Pc	10 54.00	3.2X
PKR		80.02	227	P	11 52.10	61.0X
PMR		80.44	22	ePc	10 52.70	0.0
		1.3s	151.00nm			5.9mb
	Z	19s	31.50um			6.7Msz
WIN		80.52	237	iPc	11 54.40	60.4X
		1.3s	108.00nm			
	Z	19s	29.50um			6.7Msz
GRM		81.15	224	iPc	10 57.20	0.3
		1.2s	244.00nm			6.1mb

Sta	Comp	Dist	Az	Phase	Time	Res
	Z	21s	17.20um			6.4Msz
KDC		82.04	26	iPc	11 01.90	0.8
KIC		83.29	273	iP	11 08.80	0.4
FRB		83.87	347	ePc	11 10.00	-0.4
SUR		84.11	228	iPc	11 15.60	2.6
		1.4s	260.00nm			6.3mb
	Z	17s	91.80um			7.2MszX
ADE		84.13	136	Pc	11 12.20	0.0
PDA		84.20	310	P	11 14.30	1.7
HON		85.27	19	eP	11 19.00	1.4
CER		85.72	228	iPd	11 21.00	0.8
		0.6s	66.70nm			6.0mb
KDS		86.72	282	iP	11 25.20	-0.3
YKA		87.31	7	P	11 29.90	2.4
YOU		89.86	130	Pc	11 39.80	-0.3
				e	13 45.20	573kmX
				e	15 12.60	
TOO		89.99	134	Pc	11 41.20	0.6
CAN		90.88	131	Pc	11 45.00	0.2
				i	11 53.40	26km
WAM		91.32	131	P	11 47.40	0.7
				e	11 55.90	26km
SCH		91.45	342	eP	11 47.00	-0.3
RIV		91.46	128	iPc	11 57.00	9.6X
FCC		91.83	357	eP	11 48.00	-0.8
STJ		92.64	331	eP	11 57.00	4.2X
KOU		94.30	111	Pc	12 01.60	0.9
TAU		94.36	138	eP	12 05.00	4.5X
FFC		95.92	2	iPc	12 07.50	-0.3
		1.3s	179.00nm			6.4mb
PVC		96.24	107	Pc	12 13.80	4.2X
MIR		96.33	175	ePd	12 09.00	0.0
				eS	23 22.00	
EDM		96.52	9	iPc	12 10.70	0.1
NOU		96.91	112	Pd	12 14.10	1.5
MAW		97.93	187	Pc	12 16.30	0.2
PNT		99.24	14	eP	12 23.00	0.1
YKM		100.40	11	iPdiff	12 28.70	0.5
NEW		100.73	12	ePdiff	12 30.00	0.5
	Z	20s	19.00um			6.6Msz
	N	20s	10.00um			
	E	20s	14.00um			
LDM		100.86	11	iPdiff	12 31.00	0.9
LHC		101.81	353	ePdiff	12 31.00	-3.2X
MSO		102.67	11	ePdiff	12 40.00	1.8
				e	16 56.00	
				e	23 24.00	
HRF		103.18	9	ePdiff	12 41.50	1.0
CMT		103.27	9	ePdiff	12 41.30	0.3
BUT		103.67	10	ePdiff	12 42.30	-0.5
LD3		103.84	5	ePdiff	12 43.50	0.1
BDW		107.26	8	(Pdiff	12 55.00	-4.0X
				ePP	17 08.30	
BKS		109.36	19	ePdiff	13 20.00	11.9X
	Z	20s	16.40um			6.6Msz
	N	22s	9.30um			
	E	20s	11.80um			
				ePP	17 15.10	
				iSKS	23 50.00	
				eP'P'	38 02.00	
EUR		109.40	14	iPdiff	13 08.20	-0.4
		1.3s	3.08nm			
MHC		110.03	19	ePKP	17 15.00	1.7
GOL		110.74	5	ePKP	17 14.90	0.2
	Z	18s	26.40um			6.9Msz
KRP		110.76	123	ePKP	17 22.00	7.6X
				e	28 22.00	
FRI		110.89	18	ePKP	17 15.00	0.3
NVL		111.25	199	ePdiff	13 22.00	6.3X
AFI		111.49	94	ePKP	17 23.00	6.5X
				SKS	24 08.00	
				e	25 40.00	
				e	27 40.00	
				e	32 00.00	
				SSS	37 12.00	
				e	42 28.00	
MNG		111.70	125	ePKP	17 20.00	3.8X
				e	28 18.00	
FVM		112.25	353	ePKP	17 17.30	0.0
	Z	21s	17.60um			6.6Msz
GCA		112.66	11	e(PKP)	17 17.00	-1.2
ORT		113.35	347	ePKP	17 22.50	3.0X
TKL		113.49	347	ePKP	17 22.10	2.4
PAS		113.98	17	Pdiff	13 30.00	1.3
				P	17 20.00	
				PP	18 18.00	
				PPP	20 41.00	

		SKS	24 06.00		
		SKKS	25 10.00		
		PS	27 47.00		
		PKKP	28 01.00		
		PPS	29 08.00		
		SS	34 28.00		
		SSS	38 22.00		
PAS	113.98	17 ePKP	17 20.00	-0.8	
	Z 20s	18.00um		6.7Msz	
	N 20s	10.00um			
	E 20s	13.00um			
		ePP	18 18.00		
		ePKKP	28 01.00		
RLO	114.43	357 iPKP	17 21.60	0.0	
PRM	114.71	345 ePKPd	18 22.20	60.0X	
TUL	114.72	357 iPKP	17 21.50	-0.6	
	1.2s	63.00nm			
	Z 20s	4.16um		6.0Msz	
SNA	115.43	202 PKP	17 22.70	0.3	
GLA	115.83	15 ePKPc	17 25.80	1.4	
TUC	117.35	11 ePKPd	17 28.50	1.1	
SBA	117.85	166 iPKP	17 27.20	0.4	
		e	17 35.00		
		SKS	24 28.00		
		PS	28 38.00		
		SS	34 58.00		
		LQ	48 00.00		
		LR	54 00.00		
SPA	119.49	180 ePKPc	17 29.70	-0.7	
	0.9s	25.20nm			
	Z 20s	33.70um		7.0Msz	
MOT	119.80	5 iPKP	17 26.20	-6.0X	
JCT	120.19	1 ePKP	17 32.00	-0.7	
	0.9s	77.70nm			
	Z 20s	12.40um		6.5Msz	
HKT	120.65	357 ePKP	17 33.60	0.1	
SOB3	122.85	278 PKP	17 38.50	0.3	
		e	17 41.60		
		e	17 44.60		
		e	17 51.60		
TRN	126.05	312 iPKPc	17 45.70	1.3	
	0.9s	128.00nm			
CAR	129.57	318 iPKPc	17 50.00	-1.3	
	1.2s	144.00nm			
	Z 22s	7.41um		6.3Msz	
RDJ	130.02	264 PKP	17 49.00	-2.7X	
		iPP	20 08.00		
		iPKS	21 19.20		
		ePPP	22 56.40		
		eSKS	25 07.60		
		eSKKS	27 02.40		
		ePPS	31 55.60		
		eSS	37 25.20		
IIC	130.86	0 ePKP	17 54.40	0.5	
BAO	131.36	275 ePKP	17 53.50	-1.1	
IIT	131.60	359 ePKP	17 55.60	0.4	
III	132.25	1 ePKP	17 57.40	1.0	
PPT	132.36	87 ePKP	18 01.00	4.7X	
	1.1s	90.00nm			
VHO	133.34	357 iPKP	18 00.00	1.6	
UAV	133.52	321 ePKP	17 46.30	-12.6X	
	0.8s	37.00nm			
LPS	135.31	347 ePKP	17 46.50	-15.6X	
FUO	137.54	321 ePKP	17 59.00	-7.7X	
LCR	138.29	338 PKPc	18 07.70	-0.2	
AIA	138.42	201 e(PKP)	18 09.00	2.7X	
CHN	138.96	323 ePKP	18 09.00	-0.1	
OTP	140.17	83 ePKP	18 16.00	5.1X	
	1.2s	170.00nm			
PSO	143.05	322 iPKP	18 13.50	-3.2X	
LPA	145.15	251 PKPd+	18 20.20	1.1	
	1.0s	1840.00nm			
	Z 20s	22.70um		6.9Msz	
NCE	145.23	322 PKP	18 21.60	1.1	
BAA	145.59	251 PKP	18 19.40	-0.5	
RKT	147.12	87 iPKP	18 24.20	1.5	
	1.1s	240.00nm			
ZOBO	148.80	288 iPKP	18 26.80	0.5	
LPB	148.92	288 PKP	18 27.50	1.2	
SLA	149.95	271 PKPc	18 28.40	1.1	
CYA	151.09	264 PKPc	18 30.20	1.4	
ARE	151.66	292 PKPc	18 31.50	1.3	
HUA	151.95	304 iPKPc	18 33.80	2.9X	
NNA	153.00	306 PKP+	18 32.80	0.9	
VCA	153.23	264 PKPc	18 34.50	2.5	
CFA	153.59	258 PKPc	18 33.80	1.5	
ANT	153.91	276 PKP	18 34.50	1.7	

		ePP	22 24.00		
		ePPP	25 48.00		
		eSS	41 50.00		
		eSSS	47 46.00		
CEN	154.03	258 e(PKP)	18 30.00	-2.9X	
TLL	155.67	262 PKP	18 37.00	1.6	
SAN	155.68	254 ePKP	18 42.00	7.0X	
LNV	156.29	253 ePKP	18 37.00	1.3	
TMU	156.51	240 PKP	18 37.00	1.1	
	S.D. = 1.0	on 383 of 449 obs.			
	OCT 10, 1980	12h 25m 23.81± 0.08s			
	36.213 N ± 1.3km	1.395 E ± 1.2km			
	DEPTH = 11.1km	(14 depth phases)			
	6.3mb (48 obs.)	7.2Msz (14 obs.)			
	ALGERIA			(396)	
	At least 5000 people killed,				
	9000 injured and extensive				
	damage in the El Asnam area.				
	Felt throughout northwestern				
	Algeria and in southeastern				
	Spain. Approximately 42 km. of				
	surface rupture observed.				
ALI	2.61	325 iPn	26 06.00	-0.6	
ALM	3.17	283 iPn	26 13.00	-1.5	
CRT	4.13	285 iPnd	26 28.90	0.7	
EBR	4.65	352 ePn	26 35.00	-0.6	
		e	37 56.00		
MAL	4.71	278 iPn	26 35.60	-0.8	
		iS	27 50.00		
TOL	5.64	312 Pnd	26 48.00	-1.7	
IFR	6.00	245 Pn	26 52.50	-2.3	
BMK	6.03	260 Pn	26 56.00	0.9	
GUD	6.21	317 iPn	26 55.80	-1.9	
HAD	6.42	231 Pn	26 59.00	-1.7	
EPF	6.86	354 Pn	27 06.40	-0.4	
LGR	6.93	335 iPnd	27 10.00	2.3	
	0.9s	7.00nm		4.8mb X	
		eSn	28 30.00		
KCHT	6.94	80 iPn	27 05.60	-2.3	
CGL	7.00	61 Pn-	27 04.50	-4.4X	
ZGN	7.04	86 iPn	27 07.00	-2.4	
BMB	7.06	254 Pn	27 07.00	-2.5	
SBS	7.24	82 iPn	27 12.50	0.4	
MBZ	7.49	84 iPn	27 13.60	-2.0	
AVE	7.81	251 Pn	27 19.00	-1.1	
		Pg	27 51.00		
LMR	8.13	27 P	27 22.30	-2.1	
		Sn	28 48.20		
MTE	8.17	303 iP	27 24.00	-1.2	
LRG	8.18	26 P	27 23.30	-1.8	
		Sn	28 47.80		
FRF	8.37	27 P	27 25.60	-2.3	
		Sn	28 53.90		
LPO	8.46	359 P	27 28.00	-1.1	
CVF	8.58	40 P	27 27.20	-3.7X	
		Sn	28 56.80		
BME	8.61	234 P	27 29.00	-2.4	
COI	8.69	300 P	27 30.40	-1.9	
CAF	8.72	3 P	27 31.30	-1.4	
LFF	8.73	357 P	27 31.80	-1.0	
LIS	8.75	290 Pc	27 30.20	-2.9	
		eS	29 07.00		
TIO	8.94	236 P	27 34.00	-1.9	
RJF	9.08	1 P	27 36.60	-1.1	
STV	9.21	28 P	27 39.00	-0.6	
PTO	9.23	305 P	27 36.30	-3.5X	
		i	29 26.00		
SSB	9.36	14 eP	27 41.70	0.1	
ROB	9.46	30 P	27 41.50	-1.5	
GRN	9.60	19 iP	27 45.30	0.3	
PYM	9.61	7 Pd	27 44.50	-0.5	
PNI	9.79	26 P	27 47.70	0.2	
		eS	29 37.00		
GEN	10.01	33 P	27 48.90	-1.5	
		eS	29 39.00		
LSF	10.03	1 P	27 49.00	-1.8	
		Sn	29 34.90		
MZF	10.03	5 P	27 49.50	-1.3	
TCF	10.08	3 P	27 49.80	-1.7	
STS	10.16	314 iPd	27 50.50	-2.1	
		Sn	31 22.50		
GIB	10.24	76 P-	27 56.00	2.2	
		iSn	29 48.50		
		i	32 39.00		
RMP	10.42	54 P	27 56.00	-0.2	

		iSn	28 48.00		
MFF	10.44	354 P	27 54.60	-1.8	
VG1	10.49	32 P+	28 00.00	3.0X	
SMF	10.58	9 P	27 58.00	-0.4	
ORO	10.64	26 P	28 00.50	1.3	
PRT	10.67	41 P	28 02.50	3.0X	
		iSn	30 06.00		
AVF	10.67	7 P	27 58.70	-0.8	
FIR	10.68	42 P	28 01.50	1.8	
MNS	10.69	51 P	27 57.00	-2.9	
		iSn	29 56.00		
PCN	10.83	33 P+	28 05.00	3.3X	
		i	28 14.50		
		iSn	30 08.00		
DIX	10.85	23 Pc	28 02.50	0.3	
PRG	10.91	48 P	28 04.00	1.1	
		eSn	30 09.00		
LBF	10.93	9 P	28 02.20	-1.0	
SSF	10.95	8 P	28 03.00	-0.4	
YBT	11.13	238 P	28 14.00	8.2X	
AQU	11.14	53 P	28 06.00	0.0	
OVO	11.18	62 P	28 04.50	-2.0	
LOR	11.20	9 P	28 06.20	-0.6	
SGG	11.37	59 P	28 06.30	-2.9	
ALP	11.46	51 P+	28 10.40	0.0	
RCI	11.53	76 P	28 11.40	0.2	
		iSn	30 13.40		
DUI	11.53	58 P	28 12.50	1.2	
NEC	11.55	19 Pc	28 10.50	-1.1	
OII	11.57	76 P	28 15.80	4.0X	
SAL	11.64	34 P	28 17.50	4.7X	
		iSn	30 51.00		
PRO	11.70	45 P-	28 18.00	4.4X	
LPF	11.95	352 P	28 15.20	-1.7	
		Sn	30 23.10		
BBS	12.13	20 Pc	28 18.00	-1.4	
FOG	12.21	60 P	28 25.00	4.5X	
BSF	12.28	17 P	28 20.20	-1.3	
GRR	12.28	353 P	28 20.00	-1.4	
		Sn	30 28.50		
BAF	12.33	18 P-	28 22.00	-0.2	
HAU	12.34	16 P	28 21.30	-0.9	
ZUL	12.40	23 Pc	28 22.50	-0.5	
SSC	12.41	355 P	28 21.80	-1.3	
		Sn	30 31.60		
ORI	12.46	68 P	28 26.60	2.8	
CTI	12.49	35 P	28 25.00	0.7	
FLN	12.62	354 P	28 24.40	-1.5	
		Sn	30 37.80		
BUB	12.70	23 Pc	28 26.50	-0.6	
ECH	12.73	18 P	28 26.90	-0.5	
OGA	12.85	31 iPc	28 32.30	3.1X	
CDF	12.94	18 P	28 28.50	-1.8	
RCL	13.05	37 P	28 32.80	1.1	
BRT	13.22	65 P	28 35.00	1.1	
STR	13.22	19 P+	28 30.00	-3.9X	
UDI	13.27	38 P	28 34.40	-0.1	
TRI	13.30	41 P+	28 34.50	-0.5	
		eSn	31 07.00		
GAP	13.35	30 iPc	28 38.40	2.7	
BUH	13.43	20 eP	28 35.60	-1.1	
LCI	13.64	67 P+	28 44.80	5.3X	
CEY	13.68	42 iPc	28 39.90	-0.1	
RBL	13.70	38 P	28 40.50	0.2	
		i	28 53.50		
STU	13.80	22 ePc	28 41.50	0.0	
WLF	13.88	13 ePc	28 49.00	6.4X	
		S	31 17.00		
LJU	13.93	41 iPc	28 44.10	0.9	
		eS	31 14.50		
FUR	13.99	28 iPc	28 45.40	1.3	
	1.5s	4000.00nm		7.0mb	
DOU	14.07	9 Pd	28 45.50	0.4	
		e	28 46.40		
		i	28 48.10		
		S	31 22.00		
		e	33 22.40		
BHG	14.30	33 iPc	28 50.00	1.8	
ZAG	14.58	44 iP	28 52.90	1.1	
		iS	31 38.60		
UCC	14.74	7 Pc+	28 54.10	0.3	
		e	28 56.50		
		e	28 59.30		
		S	31 43.00		
MEM	14.77	12 Pc	28 58.60	4.4X	
		S	31 48.00		
KLL	14.86	12 eP	28 58.70	3.3X	

TABLE 4-16

10d 12h

STB	14.90	14	iPc	28	58.90	2.9X				iS	33	00.00						iS	34	45.00			
TNS	14.91	18	eP	28	57.90	1.8	DLE	17.96	344	iPd	29	36.70	1.9					isS	34	51.00			
KOE	14.93	16	eP	28	59.50	3.3X		1.7s	5500.00nm				6.4mb	BCK	23.36	78	P+		30	34.00	0.9		
MOA	15.03	35	iPc	28	59.00	1.3	DDK	18.01	345	iPd	29	39.00	3.6X	KON	24.05	10	iP		30	40.30	0.8		
			PP	29	10.00		SOF	18.11	62	Pc	29	32.00	-4.9X	BER	24.32	5	iP		30	44.30	2.2		
			e	37	47.00		DCN	18.18	343	iPd	29	39.40	1.9	SYT	24.40	78	P-		30	44.00	0.7		
HEE	15.03	11	iPc	29	00.00	2.4		2.0s	7900.00nm				6.5mb	MGN	24.46	70	P		30	42.90	-0.8		
			i	29	02.90		BRN	18.23	24	iPc	29	41.00	2.8	HFS	25.22	14	eP		30	49.50	-1.2		
KMR	15.12	35	iPc	29	00.30	1.5				eS	33	03.50			1.0s	417.00nm					6.1mb		
WOL	15.21	354	iPd	29	00.20	0.2	HAM	18.26	16	iPc	29	42.60	4.1X		Z 12s	806.00um					7.5MszX		
CLG	15.24	13	iPd	28	57.50	-2.8X	GZR	18.56	54	eP	29	42.00	-0.4	NAO	25.36	11	P		30	51.70	-0.4		
GRFO	15.25	25	iP	29	02.10	1.6				i	32	52.00			1.0s	508.00nm					6.2mb		
GRF	15.25	25	ePc	29	00.20	-0.4	DMU	18.61	344	iPd	29	43.90	1.0	KAS	25.66	69	P-		30	55.50	0.3		
	Z 11s	1460.00um						1.7s	3600.00nm				6.3mb	HLW	25.83	96	iPc		30	58.00	1.3		
			i	29	05.00		JOS	18.67	43	Pc	29	43.60	0.0				iS		34	22.00			
			eS	32	03.50					e	30	44.00		UPP	25.89	19	iPc		30	55.00	-2.0		
TIR	15.28	65	P	28	59.40	-1.6				i	31	48.00			1.1s	2400.00nm					6.8mb		
BNS	15.32	14	iPd	29	06.40	5.0X				i	32	31.00					iS		35	28.50			
	1.4s	6.20nm				3.8mb X	DEV	18.83	53	Pc	29	46.00	0.4	SIM	26.20	60	Pc		30	59.50	-0.5		
			i	32	47.00		SPC	18.91	41	iP	29	49.10	2.3				iS		35	39.50			
HOK	15.36	14	iPd	29	07.40	5.4X	NIE	19.09	40	iP	29	50.50	1.7	KVT	27.38	69	P		31	10.80	-0.2		
WET	15.41	29	iPc	29	02.20	-0.5	KRA	19.28	38	eP	29	50.30	-0.8	NUR	28.50	24	Pc		31	20.20	-0.6		
			i	29	04.40			1.3s	2080.00nm				6.2mb				i		31	22.20	7km		
KHC	15.69	31	iPc	29	05.10	-1.1				i	29	53.10	11km				eS		36	04.00			
	1.3s	1150.00nm				5.9mb				i	30	01.60		EIL	28.85	94	Pc		31	23.50	-0.8		
			i	29	06.40					iS	33	37.30		UME	29.92	17	P		31	32.50	-1.0		
			i	29	08.50		DRA	19.30	57	eP	29	51.00	-0.4				ipP		31	35.60	11km		
			e	34	55.50		CEI	19.34	47	eP	29	53.00	1.1	KUK	29.93	184	Pc		31	33.50	-0.5		
			e	35	36.70					eS	33	40.00		PUL	30.06	29	Pc		31	34.00	-0.8		
			e	36	22.00		ESK	19.37	352	iPd	29	53.50	1.4				iS		36	39.00			
HOF	16.00	25	iPc	29	11.30	1.0		1.0s	2160.00nm				6.4mb	SOC	30.10	64	Pc		31	35.00	-0.4		
			i	29	14.20		EKA	19.38	352	Pd	29	55.40	3.2X	KIC	30.24	192	eP		31	34.00	-2.8		
SOP	16.05	40	Pc	29	11.20	0.4		0.8s	234.00nm				5.5mb	OBN	30.58	41	Pc		31	39.50	0.0		
			e	30	04.00		KDZ	19.38	66	Pc	29	52.00	-0.5				iS		36	45.00			
			eSS	32	30.00		PVL	19.53	62	Pc	29	52.00	-2.1	SUF	30.63	22	iP		31	39.00	-0.9		
DBN	16.11	8	iPd	29	17.00	5.4X	DIM	19.62	65	eP	29	56.00	0.9	REY	31.31	340	eP		31	50.60	4.8X		
			iS	32	12.00		UZH	19.73	45	P	29	56.00	-0.2	MOS	31.35	40	Pc		31	47.00	0.8		
MOX	16.20	24	iPc+	29	14.00	1.2	EBL	19.80	353	ePc	29	57.10	0.2				iS		36	53.00			
			S	32	20.00			0.6s	14.70nm				4.5mb X	AKU	31.67	345	iP		31	50.00	1.0		
			e	37	30.00		EGL	19.85	353	ePc	29	57.60	0.1		1.1s	9000.00nm					7.6mb X		
WTS	16.24	12	iPd	29	18.30	5.0X		0.6s	42.00nm				4.9mb X				i		31	54.20	15km		
			i	29	20.30		MDB	19.88	53	eP	29	56.00	-1.8	NYA	32.06	133	P+		31	52.60	-0.3		
			i	29	22.60					eS	33	42.00					pP		31	56.50	14km		
VKA	16.31	38	iPc	29	15.70	1.5	EAU	19.91	352	iPc	30	01.00	2.9X	KJF	32.21	21	Pc		31	52.80	-0.9		
			i	29	18.00			1.1s	2050.00nm				6.4mb				i		31	55.00	6km		
			PP	29	30.00		EZN	19.95	72	P	29	55.80	-2.8				ePP		33	00.00			
			S	32	18.00		EDI	19.96	352	eFc	29	58.80	0.2				eS		37	00.00			
			SS	32	34.00			0.6s	49.00nm				5.0mb X	PYA	32.52	63	Pc		31	56.00	-0.7		
			e	37	20.00		CMP	20.01	56	Pd	30	01.00	1.7				iS		37	19.00			
VIE	16.32	38	iPc	29	15.50	1.2	EBH	20.31	352	ePc	30	02.30	0.0	BKR	32.96	67	Pc		32	00.60	-0.1		
PRU	16.75	31	Pc	29	20.00	0.3		0.6s	21.70nm				4.7mb X	LEN	33.30	69	Pc		32	03.00	-0.6		
	2.9s	5190.00nm				6.2mb	EAB	20.36	351	iPc	30	05.50	2.8				eS		37	20.00			
			S	32	46.00			1.1s	1780.00nm				6.3mb	KIR	33.46	13	P		32	03.10	-1.4		
			i	20	24.50		BUC1	20.42	59	eP	30	04.00	0.5				ipP		32	06.10	10km		
PRA	16.77	30	iP	29	20.00	0.1	BUC	20.48	59	eP	30	04.00	-0.1	SOD	34.36	17	P		32	10.60	-1.7		
			S	32	22.00		ELO	20.56	352	ePc	30	06.80	2.0				i		32	12.20	5km		
TEN	16.78	248	iPc	29	21.10	0.9		1.1s	1090.00nm				6.1mb	GRO	34.45	64	Pc		32	13.40	0.1		
			iPcS	37	16.50		IZM	20.67	76	P	30	06.50	0.3				eS		37	34.00			
BEO	16.82	53	P	29	21.40	0.7	MLR	20.69	56	eP	30	04.00	-2.4	TRO	34.82	11	iP		32	16.40	0.2		
			iSg	32	41.00					iS	33	47.00		BCAO	35.35	149	iPc		32	19.80	-1.5		
ECP	16.89	343	ePd	29	23.60	2.2	MFT	20.74	69	P	30	07.00	0.1		1.5s	433.00nm					6.1mb		
	2.5s	9700.00nm				6.5mb	COP	20.88	18	iPd	30	09.40	1.3	GRS	35.36	71	Pc		32	21.20	-0.2		
WIT	17.01	11	eP	29	26.50	3.5X		1.1s	3040.00nm				6.6mb	TAB	35.60	73	iPc		32	23.00	-0.5		
			e	29	29.00		ISR	20.99	57	eP	30	10.00	0.6	MAK	35.75	65	Pc		32	24.80	0.4		
			i	29	33.20		EDC	21.15	71	P	30	10.30	-0.8				iS		37	57.00			
HRB	17.03	42	eP	29	26.00	2.8	DMK	21.19	67	P	30	09.80	-1.7	APA	36.23	20	Pc		32	28.00	-0.2		
			iS	32	46.60		WAR	21.21	35	eP	30	12.00	0.5	KEV	36.36	15	iP		32	27.40	-1.9		
SRO	17.06	42	iP	29	36.30	12.7X	LVV	21.31	43	Pc	30	13.00	0.4		1.0s	1220.00nm					6.7mb		
			e	41	00.00					iS	34	13.00		TEH	40.09	75	eP		33	01.00	-0.1		
BRG	17.21	28	iPc	29	26.50	1.0	VRI	21.32	55	P	30	13.00	0.2	DAG	41.65	353	iPc		33	13.20	0.1		
CLL	17.23	25	iPc	29	27.00	1.3	ODB	21.52	56	eP	30	15.00	0.3		0.9s	244.00nm					5.9mb		
			i	29	29.00		YER	21.56	88	P-	30	14.50	-0.8				i		35	00.00			
			i	29	34.00		CTT	21.63	69	P	30	15.20	-0.7				i		39	02.00			
			i	29	45.00		PDA	21.65	282	P	30	20.00	3.9X	SHD	42.67	73	eP		33	22.50	0.3		
			S	32	35.00		DST	21.72	73	P	30	17.40	0.5	ARU	42.91	43	Pc		33	21.80	-1.9		
BUD	17.26	44	Pc	29	27.20	1.1	BIR	22.04	55	eP	30	20.00	0.0				eS		39	51.00			
			e	30	09.00		IST	22.05	69	P+	30	20.00	-0.1	KAT	42.96	69	Pc		33	25.50	1.1		
			e	31	18.00		CFR	22.10	58	eP	30	18.00	-2.5				eS		39	40.50			
			eS	32	33.00		ISK	22.10	69	P	30	19.60	-1.0	SHI	43.01	84	ePc		33	26.00	0.9		
SSR	17.68	55	P	29	31.50	0.0	BKT	22.12	71	P	30	22.00	1.0	AAE	43.40	119	eP		33	30.20	1.6		
			e	32	48.00		IAS	22.30	52	eP	30	22.00	-0.5	SVE	44.05	43	Pc		33	34.00	1.0		
TIM	17.70	51	eP	29	31.00	-0.6				eS	34	25.00					iS		40	08.00			
VAL	17.77	336	iP	29	33.00	0.5	ADH	22.83	285	P	30	30.30	2.5	GDH	44.34	335	iPc		33	50.00	14.8X		
			iS	32	42.00		ALT	22.88	74	P-	30	28.50	0.1		1.0s	100.00nm							
DKM	17.87	345	iPd	29	35.90	2.2	ELL	22.90	80	P+	30	28.00	-0.7				i		34	51.00	296kmX		
	1.5s	3800.00nm				6.3mb	GPA	23.02	71	P	30	29.90	0.2				iPP		35	11.00			
ATH	17.89	78	iPc	29	34.00	-0.1	KIS	23.09	54	Pc	30	30.00	-0.2				iPcP		35	20.00			

10d 12h

			i	39	04.00						e	36	32.00	184kmX					iS	46	21.60		
			iS	39	40.00						e(S)	44	07.00		KOD	72.82	90		P	36	54.70	-0.3
ARO	44.69	113	iPc	33	39.70	1.0					e	44	21.00						PcP	37	12.00		
			i	33	43.80	14km					e	47	37.00						PP	39	41.00		
			e	35	26.00		CLE	62.42	303	iPc	35	51.80	2.8						PPP	41	28.00		
			eScS	43	46.00		NDI	62.94	73	iPc	35	49.50	-3.1X						eS	46	22.00		
			eScS	43	53.30			0.9s		143.00nm			6.2mb						PS	46	52.00		
MAIO	46.22	72	Pc+	33	49.00	-1.7		Z	20s	80.00um			6.9Msz						SKS	46	57.00		
			eS	40	41.60						iS	44	12.00						PPS	47	08.00		
KHI	46.25	75	iPc	33	50.20	-0.9	BLA	63.51	298	eP	35	56.20	-0.1						SS	51	10.00		
TGI	47.09	76	eP	33	56.80	-1.0				eS	44	30.40							SSS	54	10.00		
KHE	49.22	10	Pc	34	15.00	1.5	WMO	63.66	54	Pc	35	58.60	1.3						LQ	56	06.00		
			eS	41	12.00					iPP	38	21.10							LR	59	20.00		
NAI	49.76	131	iPc	34	21.00	2.4	CIR	63.68	148	P+	35	57.00	-0.4		LSA	72.96	66	Pc	36	56.60	0.7	
	1.0s		130.00nm			5.9mb				iPn	36	46.00							PP	39	40.60		
SAM	50.81	65	Pc	34	26.00	-0.2	UTO	63.73	304	ePc	36	00.00	2.4						S	46	25.60		
CBM	51.52	305	eP	34	31.00	-0.4	BOM	64.32	85	P-	36	01.00	-0.8		GAL	72.98	271	eP	37	00.50	4.9X	
EMM	51.67	302	eP	34	31.80	-0.7				PcP	36	28.00			GRM	73.06	158	iPc	36	50.70	-5.0X	
	1.0s		340.00nm			6.2mb				PP	38	32.50				1.5s		350.00nm				6.2mb
TAS	51.97	62	Pc	34	35.00	0.0				PPP	40	10.00			VIS	73.35	80	P	36	54.00	-3.7X	
			iS	42	00.00					S	44	44.00							S	46	23.00		
DSH	52.48	66	Pc	34	38.90	0.0	AN3	64.38	303	eP	36	01.50	-0.4		TRD	73.40	92	P+	36	50.50	-7.5X	
			iS	42	10.40		AN12	64.47	303	eP	36	01.70	-0.8						S	46	31.00		
MIM	52.58	303	eP	34	39.00	-0.5	AN9	64.77	303	eP	36	03.40	-1.1		MDR	73.46	86	P+	36	57.90	-0.4	
GAR	53.47	65	eP	34	44.00	-2.3	AN10	64.86	303	eP	36	03.00	-2.1						S	46	32.70		
			esP	34	46.40		AN11	64.96	303	eP	36	04.60	-1.1		YAK	73.61	23	Pc	36	58.50	0.0	
			eS	42	13.60		POD	65.35	84	P+	36	07.70	-0.8						iS	46	31.00		
KBL	54.14	70	eP	34	36.00	-15.3X				PcP	36	46.00			CAL	74.71	73	P	37	11.00	5.5X	
QUE	54.26	76	iPc	34	50.40	-1.9				PP	38	28.00							PcP	37	21.00		
			eS	42	35.10					PPP	40	14.50							S	46	48.00		
ANR	54.35	62	Pc	34	52.80	0.2				S	44	56.50			FUO	74.80	266	eP	37	06.00	-0.6	
			iS	42	38.00					ScS	46	05.50			LD3	75.27	317	eP	37	07.80	-0.6	
WES	55.04	300	eP	34	55.70	-1.8				SS	49	22.00							PP	40	01.00		
	0.8s		1480.00nm			7.1mb	SEH	65.54	78	P+	35	56.00	-13.6X		BOG	75.55	265	eP	37	10.50	-0.4	
FRU	55.24	59	eP	34	58.00	-1.1	KSR	66.27	155	iPd	36	14.00	-0.3		BOCO	75.56	265	eP	37	10.00	-1.0	
			ipP	34	59.40	5km		0.7s		26.00nm			5.5mb		SHL	75.75	69	P+	37	10.00	-1.7	
			iS	42	49.40		TIK	66.30	16	Pc	36	13.80	0.0		AGT	76.19	70	P	37	12.50	-1.4	
HNH	55.27	302	eP	35	00.00	0.8				esP	36	16.50			ILT	76.21	0	Pc	37	13.80	0.6	
NRI	55.49	25	Pc	35	00.00	-0.5				epP	36	18.00	13km					isP	37	18.50		
			iS	42	48.00		PRM	66.35	296	ePd	36	13.80	-0.9					eS	47	00.50		
HDM	56.19	300	eP	34	53.00	-12.8X	CAR	66.40	266	eP	36	15.50	0.1		IMA	76.24	350	ePc	37	13.30	-0.4	
SEM	56.49	49	Pc	35	07.50	-0.4	PRE	66.62	154	iPc	36	16.70	0.2		COL	76.37	347	eP	37	08.00	-6.3X	
NVS	56.91	43	Pc	35	09.00	-1.9		0.8s		128.00nm			6.2mb					eS	47	12.00		
			iS	43	07.00					S	45	10.60			FBA	76.37	347	ePc	37	13.10	-1.2	
TLG	56.99	58	P	35	11.00	-0.7	TKL	66.62	298	iPc	36	15.90	-0.5		TOC	77.24	66	P	37	25.00	5.2X	
			iS	43	00.00					e	04	47.80						S	47	15.00		
KSH	57.40	62	Pc	35	15.70	1.0	ORT	66.88	298	eP	36	16.80	-1.3		LZH	78.25	54	Pc	37	27.40	2.0	
			PP	37	18.70		CPO	67.93	299	iP	36	24.00	-0.8					PP	40	26.40		
PRZ	57.97	58	eP	35	19.00	0.3		2.9s		585.00nm			6.3mb		RXF	78.27	323	iPc	37	24.70	-0.5	
			eS	43	21.40					eS	44	05.10			SEY	78.53	13	ePc	37	27.00	0.8	
ELT	59.10	44	Pc	35	23.70	-2.5	CNG	68.62	150	eP	36	28.00	-0.9					iS	47	23.00		
KRI	59.12	148	P+	35	25.00	-1.9		1.2s		149.00nm			6.0mb		YKM	78.56	323	iPc	37	26.70	-0.2	
MTD	59.94	146	P+	35	32.00	-0.5				e	36	35.00	22kmX		LDM	78.64	323	iPc	37	27.50	0.3	
			iPn	36	21.00					e(PcP)	36	58.00			GLD	78.68	311	P	37	27.00	-0.7	
			iPP	37	46.00					e(PP)	39	05.00				Z	18s		99.40um			7.2Msz
TET	60.31	144	eP	35	33.00	-1.9	VAR	69.11	73	P-	36	29.90	-2.2		GOL	78.80	311	ePc	37	27.70	-0.8	
			e(PcP)	36	23.00					PcP	36	55.00			BUT	78.87	320	ePd	37	29.00	0.3	
			e(PP)	37	46.00					PP	38	57.00			ANM	79.01	354	eP	37	30.50	1.7	
			e	40	26.00					PPP	40	35.60			MSO	79.05	321	ePc	37	29.10	-0.4	
			e	42	35.00					PPS	46	03.20				1.2s		314.00nm			6.2mb	
			e(S)	43	47.00		TOV	69.12	267	eP	36	33.30	0.9			Z	20s	240.00um			7.5Msz	
CLK	60.59	142	P+	35	37.00	0.1	YKA	69.12	333	P	36	33.60	2.0			N	20s	280.00um				
			iPn	36	26.00		IRK	69.33	40	Pc	36	32.50	-0.6			E	20s	120.00um				
SOB4	60.66	230	P	35	37.90	0.5				eS	45	41.50						e	49	15.20		
			e	35	40.80	10km	HYB	69.72	83	ePc+	36	34.00	-2.0		BDW	79.34	316	ePc	37	30.40	-1.0	
			e	35	41.80					PcP	37	00.00						e	47	44.40		
			e	35	46.70					pP	39	12.30			BTO	79.36	47	Pc	37	31.80	0.5	
			e	35	50.20					S	45	42.80						PP	40	33.80		
			ePcP	36	20.20					P'P'	05	39.00						S	47	32.80		
SOB3	60.85	230	e(P)	35	43.30	4.6X	ZAK	69.81	42	Pc	36	36.60	0.7		TTA	79.55	350	ePc	37	33.30	1.4	
BHK	61.07	71	P	35	43.00	3.0X	FVM	70.11	303	eP	36	35.80	-2.3		PMR	79.64	346	ePc	37	32.90	0.7	
			pP	35	51.20	27kmX		Z	20s	98.60um			7.1Msz		NEW	79.65	323	eP	37	32.50	-0.2	
			S	44	03.00		AVY	70.18	133	iPd	36	40.30	1.4			Z	20s	340.00um			7.7Msz	
SJG	61.61	272	iP	35	44.00	0.1	SDV	70.32	267	eP	36	40.20	0.3			N	20s	180.00um				
			ipP	35	49.00	16km		0.8s		60.00nm			5.8mb			E	20s	170.00um				
			iS	44	12.00		UAV	70.89	267	eP	36	42.90	-0.5		REX	79.90	317	iPc	37	24.70	-9.5X	
			iLQ	51	02.00			0.4s		130.00nm			6.4mb		SIT	80.16	338	eP	37	36.90	1.8	
BUL	61.68	151	P+	35	42.00	-2.4	GBA	70.90	87	Pd	36	41.60	-1.6		LUB	80.27	304	eP	37	37.00	0.7	
			iPn	36	32.00			2.3s		1060.00nm			6.6mb		SJS	80.56	275	P-	37	39.20	1.0	
TRN	61.88	262	eP	35	47.00	1.3	CER	71.21	164	iPd	36	44.00	-0.6		LCR	80.63	275	P-	37	37.80	-0.8	
	1.0s		340.00nm			6.5mb		1.2s		78.10nm			5.7mb		MGD	80.78	15	Pc	37	40.00	1.6	
AJM	61.88	77	P+	35	47.00	1.4				(S)	46	07.00						esP	37	42.00		
			pP	35	56.00	29kmX	BOK	72.03	73	P	36	49.00	-0.9					iS	47	48.00		
			S	44	08.00					pP	37	01.00	40kmX		CDU	81.59	58	Pc	37	42.50	-0.7	
MRG	62.12	300	iPc	35	47.40	0.4				PcP	37	10.00						PP	40	53.00		
			ePP	38	01.00					PP	39	26.00						S	47	55.00		
NPA	62.31	138	ePc	35	49.00	0.5	RDJ	72.34	223	Pc	36	52.00	0.5		OAO	81.97	264	iPc	37	58.00	12.2X	

10d 12h

ANMO	82.43	308	eP	37 47.00	-0.7
	2.5s	449.00nm			6.2mb
			e	41 04.00	
ALQ	82.43	308	eP	37 47.20	-0.6
	Z 20s	146.00um			7.3Msz
XAN	82.79	53	Pc	37 50.20	0.8
			PP	41 00.20	
LON	82.96	325	eP	37 50.00	-0.1
			e	48 22.00	
BJI	83.30	45	Pc	37 52.00	0.2
	2.0s	1280.00nm			6.8mb
	Z 17s	41.80um			6.9MszX
			eS	48 05.00	
ZOBO	83.80	245	P	37 54.80	-0.6
KDC	83.85	346	eP	37 54.50	0.2
LPB	83.95	245	Pd	37 55.80	-0.1
	1.0s	220.00nm			6.3mb
			S	48 20.00	
KMI	84.02	63	Pc	37 57.00	0.9
			PP	41 14.00	
PBA	84.27	80	P	37 59.00	1.9
			PP	41 18.00	
			S	48 24.00	
CHG	84.96	71	iPc	38 00.00	-0.6
	2.0s	438.00nm			6.3mb
			eS	48 28.00	
CHTO	84.96	71	iPc	37 59.90	-0.6
	2.1s	3230.00nm			7.2mb
			e	38 05.60	18km
			e	38 22.00	
EUR	85.13	316	iP	38 02.30	0.8
	0.8s	44.20nm			5.7mb
BMN	85.16	318	eP	38 01.60	0.1
COR	85.27	324	iPc	37 05.00	-56.7X
CN2	85.54	37	Pc	38 03.00	-0.1
			PP	41 24.00	
BDT	85.93	72	iPc	38 05.30	-0.1
	0.8s	103.00nm			6.1mb
GYA	86.00	60	Pc	38 06.60	0.8
ARE	86.41	247	eP	38 08.00	0.0
TIA	86.44	47	Pc	38 08.00	0.3
			PP	41 33.00	
			S	48 43.00	
IIT	86.47	291	iP	38 10.00	1.6
IIP	86.73	291	iP	38 12.00	2.2
IIC	86.74	292	iP	38 11.00	1.2
TUC	86.88	308	eP	38 11.00	1.0
TAC	86.91	292	eP	38 15.00	4.5X
IIM	86.94	292	iP	38 12.00	1.3
MNV	87.08	317	iP	38 11.30	0.3
SDN	87.50	350	eP	38 13.80	1.4
MIN	87.56	320	iPc	38 13.00	-0.2
NNA	87.71	253	iPc	38 16.00	1.9
	1.1s	228.00nm			6.4mb
	Z 20s	34.00um			6.8Msz
			e	41 25.00	
			eS	48 46.00	
III	87.73	291	iP	38 14.00	-0.4
WDC	87.86	321	iPc	38 13.70	-0.8
LM2	87.94	254	eP	38 15.80	0.7
PT02	87.98	252	eP	38 17.70	2.4
ORV	88.08	319	iPc	38 15.00	-0.6
FHC	88.43	322	iP	38 17.50	0.2
WHN	88.55	53	Pc	38 18.20	0.3
			PP	41 49.00	
JAS	88.69	318	iPc	38 19.20	0.7
BGV	88.89	64	Pd	38 20.60	0.9
			e	39 06.00	182kmX
			e	41 21.00	
GLA	88.90	311	eP	38 19.20	-0.5
			PP	41 51.20	
PET	88.96	14	eP	38 18.00	-1.5
			eS	48 56.00	
FRI	88.97	317	iPc	38 20.30	0.4
TPL	89.04	242	P	38 22.00	1.8
VLA	89.08	34	eP	38 18.00	-2.2
BKS	89.70	319	ePc	38 25.10	1.8
	1.6s	410.00nm			6.4mb
	Z 20s	246.00um			7.6Msz
	N 20s	266.00um			
	E 20s	184.00um			
			ePP	42 00.00	
			eS	49 04.00	
ARN	89.71	318	ePc	38 24.70	1.3
			PP	41 57.40	
LPA	89.77	225	ePc	38 25.00	1.6
	Z 20s	70.90um			7.1Msz
			eS	48 56.00	
MHC	89.78	318	iPc	38 24.60	0.7
BAA	89.86	226	P	38 26.00	2.2
			e	39 39.20	307kmX
			S	49 20.00	
			LQ	02 36.00	
			LR	08 10.00	
BSI	89.95	83	ePc	38 25.00	0.3
	1.0s	34.50nm			5.5mb
SAO	90.09	318	iP	38 24.80	-0.4
PRI	90.12	317	iPc	38 26.60	1.2
PAS	90.13	314	iPc+	38 25.00	-0.4
	Z 20s	104.00um			7.3Msz
	N 20s	83.00um			
	E 20s	97.00um			
			iPP	42 05.00	
			eSKS	48 52.00	
			eS	49 30.00	
			ePKKP	56 03.00	
			eP'P'	04 14.00	
CYA	90.15	234	P	38 25.20	-0.2
			S	49 52.00	
YSS	90.17	25	Pc	38 26.40	1.1
			S	49 10.00	
ANT	90.21	241	iP	38 27.00	1.3
			eS	49 04.00	
NJ2	90.35	49	Pc	38 27.10	0.7
			PP	42 04.10	
			S	49 20.10	
SMY	91.20	4	eP	38 32.00	2.1
VCA	91.94	235	Pc	38 37.00	3.3X
ADK	92.26	359	eP	38 36.50	1.7
SSE	92.43	48	eP	38 36.00	0.0
	Z 20s	13.60um			6.4Msz
	N 22s	78.00um			
	E 22s	192.00um			
			PP	42 17.00	
			SKS	49 08.00	
			ScS	49 40.00	
GZH	92.81	59	P	38 39.20	1.4
			PP	42 21.20	
SAP	93.07	28	eP	38 40.00	1.3
SNG	93.19	79	iPc	38 40.00	0.4
	1.8s	14.00nm			5.1mb X
			eS	50 26.50	
KUR	93.45	23	Pc	38 40.00	-0.4
			eS	49 49.00	
TSI	93.73	83	ePd	38 43.00	0.8
CFA	93.82	233	Pc	38 43.00	0.8
			PP	42 30.00	
			PPP	44 40.00	
			sS	49 20.00	
HKC	93.90	59	P	38 44.00	1.1
			pP	42 26.00	
			PPP	44 36.00	
			S	49 48.00	
KMU	94.39	28	eP	38 43.20	-1.6
PSI	94.50	83	ePc	38 46.00	0.3
	1.1s	83.20nm			6.1mb
TLL	94.59	236	P	38 47.50	1.5
IPM	95.06	81	ePd	38 48.80	0.5
QZH	95.10	54	P	38 48.50	0.2
			PP	42 39.90	
SHK	96.23	39	ePc	38 51.60	-1.8
MIZ	96.33	30	iPd	38 56.20	2.5
			S	51 44.00	
PEL	96.39	233	eP	38 55.00	1.0
SAN	96.57	233	eP	38 56.00	1.3
NHA	96.79	70	P	39 01.00	4.8X
			eS	42 43.00	
ANP	96.82	52	Pc	38 58.00	1.7
			S	50 28.00	
MAT	97.25	34	ePc	39 00.00	2.0
	2.5s	556.00nm			6.7mb
			eS	50 16.00	
LNV	97.37	233	P	38 57.50	-0.7
ABU	97.40	36	ePc	39 06.00	7.3X
PPI	97.54	85	e(P)	39 11.80	12.3X
DDR	98.14	33	eP	39 01.60	-0.5
			PP	43 03.00	
TSK	98.37	33	eP	39 01.40	-1.6
			PP	43 02.70	
HEN	98.56	55	eP	39 07.00	2.9X
BAG	102.32	59	Pdiffc	39 20.00	-1.2
			e	42 38.00	
SNA	106.26	181	e(Pdif	39 53.00	15.7X
NVL	106.94	176	ePdiff	39 47.00	6.7X
DAV	112.26	63	Pdiff	40 06.00	0.7
MAW	113.28	158	ePKP	44 03.00	0.9
GUMO	119.64	42	e(Pdif	40 38.00	-0.1
GUA	119.71	42	e(Pdif	40 38.00	-0.4
	Z 20s	26.60um			6.9Msz
AAI	121.40	69	e(PKP)	44 21.00	1.8
NAU	121.98	96	ePKP	44 20.00	0.0
MBL	124.79	92	ePKP	44 26.00	0.5
SPA	126.03	180	ePKPc	44 26.70	-0.1
	0.5s	29.20nm			
	Z 20s	68.80um			7.3Msz
MEK	126.33	99	PKPd	44 29.60	1.1
MUN	126.76	106	ePKP	44 29.00	-0.1
NWAO	127.93	106	PKPd	44 35.30	4.0X
KNA	129.15	81	ePKP	44 34.00	0.0
MTN	129.36	76	ePKP	44 34.00	-0.5
JAY	129.66	58	e(PKP)	44 32.00	-3.2X
WRA	135.87	82	PKPc	44 38.10	-8.7X
	1.5s	16.50nm			
WB2	135.88	82	PKP	44 34.10	-12.7X
			i	44 47.60	
			i	47 25.80	
ASP	137.38	87	ePKP	44 43.00	-6.6X
			eS	48 23.00	
SBA	137.78	175	PKP	44 40.00	-8.7X
			e	44 48.00	
			i	44 56.00	
			i	45 05.00	
			PP	47 35.00	
			i	47 52.00	
			PKS	48 31.00	
			PPP	50 03.00	
			SKKKS	54 49.00	
			PcPP'	57 08.00	
			SKKS	06 00.00	
			e	21 00.00	
RAB	138.30	47	ePKP	44 41.00	-10.5X
	Z 18s	28.20um			7.0Msz
PMG	139.04	58	ePKPc	44 45.00	-7.8X
LMG	139.36	56	ePKP	44 33.00	-20.6X
ISO	140.43	79	ePKP	44 49.00	-6.2X
DRV	141.37	155	PKP	44 48.50	-6.9X
RUV	145.17	299	iPKP	45 05.10	1.7
	1.2s	2140.00nm			
TPT	145.20	299	iPKP	45 05.40	1.9
	1.2s	4000.00nm			
CTA	145.33	72	iPKP	45 02.20	-1.4
			iPP	48 26.00	
			iSKP	48 35.00	
			iPPP	51 38.00	
			iSS	07 21.00	
VAH	145.38	299	iPKP	45 05.60	1.8
	1.2s	2920.00nm			
PMO	145.41	300	iPKP	45 06.10	2.3X
	1.2s	3530.00nm			
ADE	145.47	101	PKPd	45 04.20	0.7
HNR	146.97	41	ePKP	45 10.00	3.5X
PPN	148.19	298	iPKP	45 14.00	5.7X
	1.2s	213.00nm			
TVO	148.23	297	iPKP	45 14.60	6.1X
	1.2s	244.00nm			
PPT	148.32	298	iPKP	45 14.50	6.0X
	1.2s	438.00nm			
PAE	148.39	298	ePKP	45 14.00	5.4X
	1.2s	356.00nm			
AFR	148.45	298	ePKP	45 14.00	5.3X
	1.2s	306.00nm			
TOO	151.36	104	ePKP	45 15.00	2.3X
			iS	57 05.60	
TAU	153.02	115	ePKP	45 15.00	0.2
			ePP	49 12.00	
			e	57 09.00	
			e	58 50.00	
			e	02 04.00	
			eSS	08 40.00	
			e	09 40.00	
			eSSS	14 30.00	
YOU	153.04	96	PKP	45 17.00	1.8
			e	45 23.00	
			e	48 15.20	
CAN	153.76	98	PKP	45 16.20	0.0
			e	45 24.50	
			e	49 20.50	
WAM	153.83	100	PKP	45 19.10	2.9X
			e	45 25.80	
			e	49 11.50	
RIV	155.17	93	ePKP	45 46.00	28.0X

AFI	156.96	343	PKP	45	23.00
			PP	49	24.00
			PPP	53	00.00
			PKKP	53	25.00
			e	56	32.00
			SKSP	59	48.00
			e	02	59.00
			SS	09	16.00
			SSP	10	00.00
			SSS	15	08.00
			LQ	29	00.00
			LR	38	00.00
RAP	157.79	307	iPKP	45	29.50
			e	46	05.00
			PP	49	39.00
			SSP	10	28.00
PVC	158.26	36	PKPc	45	58.50
KOU	158.38	48	PKPc	45	22.70
NOU	161.01	47	PKPc	45	25.80
NUE	161.30	334	ePKP	46	17.00
MSZ	166.72	134	ePKP	45	31.00
			e	45	35.00
			PP	51	31.00
RHP	168.31	136	ePKP	45	32.00
			e	46	44.00
			PP	50	33.00
WEL	172.76	136	iPKP	45	34.50
			e	46	54.00
			e	47	03.00
			PKS	49	38.00
			PP	50	52.00
			PPP	55	19.00
			SKKS	57	40.00
			SKKS	00	10.00
			SKSP	01	15.00
MNG	173.61	135	iPKP	45	35.40
			e	47	03.00
			PP	51	03.00
			PcPP'	54	08.00
KRP	175.01	112	ePKP	45	40.00
			e	47	11.00
			PP	51	05.00
			e	51	39.00
			PcPP'	54	23.00
GNZ	176.38	133	PKP	45	37.00
			e	47	12.00
			PP	51	11.00

S.D = 1.2 on 430 of 514 obs.

OCT 24, 1980 14h 53m 34.65± 0.28s
18.225 N ± 1.6km 98.195 W ± 1.5km
DEPTH = 66.6 ± 2.4 km
6.5mb (70 obs.)
CENTRAL MEXICO (523)

At least 300 people reported killed, many injured, approximately 150,000 homeless and extensive damage (IX) in central Mexico, mainly in the Huajuapan de Leon area. Felt throughout central and southern Mexico and in Guatemala.

III	0.80	352	iP	53	52.70
III	1.22	277	iP	53	54.80
IIP	1.31	329	iP	53	59.50
IIM	1.44	320	iP	54	00.00
MEX	1.44	320	iP	54	00.90
TAC	1.51	321	iP	54	02.00
CRx	1.83	310	eP	54	06.20
			ePP	54	23.70
IIC	1.83	327	iP	54	06.10
COM	6.12	108	iP	55	00.00
JCT	12.29	353	iP	56	29.50
Z	20s		60.30um		
CMTx	14.91	351	eP	57	04.20
EPT	15.44	332	P	57	10.00
SRA	15.59	119	P+	57	12.70
LUB	15.64	349	eP	57	13.00
SJS	15.99	119	P-	57	18.10
LCR	16.14	120	P+	57	18.40
SVM	17.10	330	iPc	57	32.60
SIO	17.53	5	iPd	57	36.80
			i	57	52.10
TUL	17.74	6	iPd-	57	38.80
Z	20s		276.00um		
			i	57	40.80
			eS	01	00.00
TUC	18.04	323	iPd	57	43.50
RLO	18.09	8	iPd	57	32.30
WLA	18.15	20	eP	57	43.40
ALO	18.20	338	iPd	57	45.20
MPH	18.36	22	eP	57	45.30
MET	18.37	22	iPc	57	45.50
GAI	18.40	49	P	57	45.00
EBZ	18.59	23	eP	57	47.40
POW	18.90	18	eP	57	50.20
GRT	19.57	22	iP	57	59.00
LST	19.70	21	eP	57	59.70
MSA	19.80	341	iPd	58	03.10
BBJ	19.87	86	eP	58	03.20
DON	20.23	19	ePd	58	05.10
STH	20.32	87	eP	58	07.70
HOJ	20.38	87	eP	58	08.10
GWJ	20.39	87	eP	58	08.10
ELC	20.56	21	eP	58	08.60
FVM	20.83	17	iP	58	10.50
Z	20s		135.00um		6.3Msz
GLA	21.00	318	iP	58	14.20
PRM	21.20	39	iPd	58	16.40
TYS	21.29	17	eP	58	17.30
ORT	21.48	32	eP	58	19.30
TKL	21.56	33	iPd	58	19.20
			ipP	58	44.20
			eS	02	18.00
HBF	21.69	44	eP	58	20.10
JSC	22.00	40	eP	58	24.60
GCA	22.09	330	iPd	58	27.20
GOL	22.28	345	iP	58	28.10
Z	20s		60.00um		6.0Msz
GLD	22.30	346	P	58	28.10
Z	20s		110.00um		6.3Msz
LHS	22.41	40	iPc	58	24.60
GAL	23.38	105	iP	58	40.50
SDW	23.43	318	iPd	58	39.80
SCI	23.45	313	iP	58	39.80
MSU	23.61	332	eP	58	41.20
PAS	23.86	316	P	58	43.00
			pP	59	06.00
			PcP	02	26.00
			S	02	58.00
			ScP	05	48.00
PRN	24.16	326	iPd	58	46.80
PUV	24.17	36	eP	58	46.10
PWV	24.27	35	iPc	58	47.30
NAV	24.39	35	iPd	58	48.00
BLA	24.52	36	ePd	58	48.90
	0.9s		0.64nm		3.1mb x
BAV	24.53	36	eP	58	49.40
GLR	24.54	324	iPd	58	50.40
HWV	24.57	35	iPd	58	49.60
AN8	25.01	26	eP	58	53.50
AN11	25.12	25	eP	58	53.30
AN10	25.13	25	eP	58	54.70
AN4	25.15	26	eP	58	54.40
DUG	25.27	333	iPd	58	56.60
AN9	25.32	25	eP	58	55.40
AN3	25.46	26	eP	58	58.40
BV3	25.62	35	eP	58	59.80
CHN	25.70	118	iP	59	02.00
FRV	25.71	39	iP	58	59.70
TNP	25.84	324	iPd	59	02.00
PBV	26.06	40	iPc	59	03.50
CVL	26.17	37	eP	59	03.90
EUR	26.19	328	iP	59	05.20
GHV	26.25	38	eP	59	04.30
BDW	26.31	341	iPd	59	05.60
PHGM	26.41	316	eP	59	06.60
BEI	26.48	337	eP	59	06.80
UTO	26.49	25	iPd	59	07.50
ACM	26.51	21	eP	59	05.90
NA12	26.51	38	eP	59	06.50
MRG	26.54	33	iP	59	09.10
PSO	26.58	127	eP	59	09.00
FRI	26.59	319	iPd	59	07.20
			ScP	06	40.00
			e	31	54.00
MNV	26.61	323	ePd	59	09.50
NA11	26.63	38	eP	59	08.10
OAO	26.66	131	iPd-	59	11.20
NA2	26.69	38	iP	59	09.10
PRI	26.69	316	iPd	59	09.20
			pP	59	36.00
			PcP	02	34.00
			e	31	41.00
CNV	26.96	38	eP	59	11.80
AAM	27.00	24	eP	59	10.80
FUQ	27.04	115	eP	59	16.00
BOG	27.19	117	iP	59	17.50
CLE	27.22	28	iPd	59	12.00
			S	03	40.00
BOCO	27.23	117	iPd	59	17.00
	3.0s		7690.00nm		6.8mb
BMN	27.54	327	iPd	59	17.20
SAO	27.56	317	iP	59	15.90
JAS	27.64	320	iPd	59	17.50
			pP	59	41.00
			PcP	02	35.00
			ScP	06	43.00
			ScS	09	00.00
			e	31	48.00
UAV	27.96	106	eP	59	22.50
	1.4s		667.00nm		6.1mb
ARN	27.96	318	iP	59	20.70
MHC	28.03	318	iPd	59	21.30
			pP	59	42.00
WCN	28.13	323	ePd	59	22.80
SDV	28.32	105	eP	59	24.80
	0.5s		24.60nm		5.1mb X
YMC	28.55	341	eP	59	26.40
BKS	28.72	318	ePd	59	27.70
	1.8s		1980.00nm		6.4mb
Z	20s		160.00um		6.6Msz
N	20s		200.00um		
E	20s		260.00um		
			epP	59	52.00
			eS	04	44.00
TOV	28.77	103	eP	59	28.50
LDJ	29.06	348	iPc	59	29.10
NWRM	29.48	318	eP	59	35.70
MIN	29.88	322	iPd	59	37.50
BUT	30.16	340	iPd-	59	40.50
			e(pP)	00	02.00
SJG	30.43	85	iP	59	44.00
GPD	30.50	37	eP	59	42.10
WDC	30.57	322	iPd	59	41.40
			PcP	02	42.00
			pPcP	03	07.00
			ScP	06	53.00
			e	31	41.00
CAR	31.21	100	iPc	59	50.00
	2.0s		3060.00nm		6.7mb
FHC	31.57	321	iPd	59	53.20
			pP	00	16.00
HDM	31.92	38	eP	59	55.00
VWMM	31.94	327	eP	59	56.00
IVT	32.95	35	eP	00	04.00
WES	33.18	38	eP	00	06.10
LDM	33.21	339	iPd	00	06.70
VTDM	33.34	330	eP	00	07.20
HNH	33.48	35	eP	00	08.80
RXF	33.50	340	iPd	00	09.40
PNY	33.58	32	eP	00	09.40
NEW	33.69	337	iPd	00	09.80
YKM	33.70	339	iPd	00	11.20
LON	34.46	331	iPd	00	18.00
	1.0s		243.00nm		6.1mb
BNH	34.62	35	eP	00	19.60
	1.2s		121.00nm		5.7mb
PNT	35.50	336	ePd	00	26.00
HKM	35.55	36	eP	00	26.50
JKM	35.86	34	eP	00	29.00
BPM	36.02	37	P	00	30.90
MIM	36.25	36	iP	00	32.00
TRN	36.36	97	eP	00	32.10
	1.6s		1560.00nm		6.7mb
FFC	36.55	356	iPd	00	33.80
PGC	36.61	332	ePd	00	35.40
LM2	36.63	144	eP	00	40.50
			PP	00	01.00
NNA	36.68	143	P+	00	36.00
			eS	05	18.00
EMM	36.82	37	eP	00	38.10
EDM	36.87	345	iPd	00	37.40
D4A	37.37	33	eP	00	41.90
HUA	37.60	141	iPd	00	46.20
PT02	37.68	144	eP	00	45.00
CBM	37.81	34	iPc	00	45.90
PT03	38.89	144	eP	00	55.50
PT04	39.55	144	eP	01	00.60
PHC	39.89	331	eP	01	03.50

TABLE 4-20

24d 15h

	1.6s	193.00nm		5.7mb						PP	06	40.00			LPF	81.32	42	iP	05	45.70	0.5
FCC	40.59	3	ePd	01	07.70	-1.4				PcS	09	01.60				1.2s	765.00nm				6.5mb
ARE	43.35	141	eP	01	28.00	-4.5X				S	12	46.00			GRR	81.33	42	iP	05	45.80	0.6
	1.5s	778.00nm		6.3mb						ScS	13	58.80				1.4s	1100.00nm				6.6mb
SCH	43.70	26	ePd	01	32.90	-1.7				SS	16	54.80			FLN	81.45	42	iP	05	46.60	0.7
ZOBO	45.29	137	P	01	45.20	-3.3X				LQ	20	06.80				1.4s	953.00nm				6.5mb
LPB	45.51	138	Pd	01	49.00	-0.9				LR	23	49.60			TOL	81.62	51	iPd	05	47.00	0.0
			S	08	20.00		LPA	65.23	144	iPd	04	10.80	-0.5			1.5s	25.00nm				4.9mb X
YKC	45.64	350	iPd	01	48.10	-1.9		Z 20s		109.00um			7.0Msz					iPP	09	12.00	
	0.6s	350.00nm		6.4mb						ipP	04	27.60	62kmX					iS	15	52.00	
YKA	45.68	349	P	01	50.20	-0.1				iS	12	49.20			SSC	81.74	42	iP	05	48.20	0.8
STJ	47.14	41	eP	02	01.90	-0.1	PDA	65.44	56	P	04	09.00	-3.8X			1.4s	735.00nm				6.4mb
	1.1s	158.00nm		5.9mb			ALE	65.82	5	iPd	04	12.50	-2.0		TRO	81.98	18	iPd	05	49.40	1.2
	47.59	333	e(P)	02	07.00	1.6		1.0s		355.00nm			6.3mb		LGR	81.99	48	iPc	05	50.80	1.9
TR	48.54	144	P	02	21.00	7.9X	RDJ	67.49	125	Pd	04	24.00	-2.0			1.4s	1.38nm				3.7mb X
ANT	49.72	146	iP	02	21.00	-1.2				iPP	06	02.40						iPcP	05	57.00	
FRB	49.77	17	ePd	02	21.00	-1.1				iPPP	08	48.00						iPP	08	59.80	
HON	50.55	334	iP	02	28.90	0.8				iS	13	15.20						iS	16	07.90	
INK	54.75	345	eP	02	59.00	-0.3				isSS	18	27.60			MAL	82.26	54	iPd	05	52.00	1.7
	0.6s	385.00nm		6.6mb			REY	67.78	27	eP	04	26.40	-0.7					iPP	09	03.00	
TLL	54.87	151	Pd	03	03.20	2.3				i	04	29.00						iS	15	37.00	
VCA	54.96	148	P	03	01.80	0.3	ADK	68.81	319	eP	04	32.00	-1.8		MFF	82.33	44	iP	05	51.00	0.5
KDC	55.96	328	eP	03	06.90	-1.2	AKU	69.47	26	iPd-	04	38.00	0.5			1.4s	473.00nm				6.3mb
PMR	55.98	333	eP	03	07.50	-0.7		1.5s		7500.00nm			7.4mb		SEY	82.43	334	Pd	05	50.90	0.2
	Z 24s	12.00um		5.9MszX			ILT	69.69	337	Pd	04	38.80	-0.1					epP	06	11.00	74kmX
CYA	55.99	145	Pd	03	07.30	-1.4				esP	05	09.00						isP	06	14.80	
KIP	56.08	284	eP	03	09.50	0.0				iS	13	47.20						eS	16	05.60	
			eS	11	02.00		DAG	69.96	14	iPd	04	38.60	-1.8		CRT	82.75	53	iP	05	54.00	1.0
HON	56.09	284	P	03	12.00	2.4		0.7s		73.00nm			5.7mb					i	07	24.00	
RES	56.51	1	eP	03	05.00	-6.8X				i	07	37.00						i	10	11.00	
	1.2s	520.00nm		6.5mb						i	09	19.00						e	11	21.00	
COL	57.05	337	iPd	03	14.50	-1.4	RAR	71.92	240	eP	04	53.00	-0.1					e	16	19.00	
FBA	57.05	337	eP	03	13.90	-2.0				e	05	05.00			KON	83.09	29	iP	05	55.60	1.5
CFA	57.28	150	Pc	03	16.00	-1.9				PcP	05	10.00			KONO	83.09	29	iPd	05	55.50	1.4
			S	11	12.00					S	14	10.00				1.0s	1000.00nm				6.7mb
PEL	57.45	153	Pd	03	17.10	-1.9				PS	15	14.00						i	06	21.00	
LNV	57.83	154	eP	03	19.00	-2.6				i	15	44.00			NB2	83.23	28	P	05	44.40	-10.5X
GDH	57.90	17	iPd-	03	20.00	-1.7				e	18	20.00				1.4s	47.30nm				
	1.0s	280.00nm		6.3mb						LR	26	20.00			PET	83.28	324	Pd	05	56.00	0.8
			i	05	56.00		SMY	74.34	321	eP	05	06.10	-0.6					epP	06	12.00	56kmX
			iS	11	15.00		VAL	74.62	40	iPd-	05	08.00	-0.4					esP	06	21.00	
MDZ	58.05	151	iP	03	21.30	-2.0				PP	08	16.00						iS	16	16.00	
			i(S)	03	39.40					PPP	09	37.00			JAU	83.31	47	eP	06	57.70	61.8X
RUV	58.75	239	iP	03	26.20	-2.1				S	14	36.00			KIR	83.40	20	Pd	05	56.10	0.4
	1.0s	1080.00nm		6.9mb						ScS	15	10.00						i	08	11.90	
TPT	58.83	239	iP	03	27.20	-1.7				SS	19	36.00						iPP	09	06.80	
	1.0s	1080.00nm		6.9mb						LQ	23	40.00						iS	16	19.60	
TCA	58.90	146	Pd	03	27.10	-2.2				LR	27	36.00			LFF	83.45	45	iP	05	56.50	0.2
VAH	58.97	239	iP	03	28.00	-1.9	TEN	74.66	65	P	05	10.00	1.0			1.2s	563.00nm				6.4mb
	1.0s	864.00nm		6.8mb						S	15	02.10			LSF	83.54	43	iP	05	56.90	0.1
PMO	59.07	239	iP	03	29.00	-1.5	KBS	76.01	11	iPd	05	16.50	0.6			1.4s	502.00nm				6.3mb
	1.0s	1080.00nm		6.9mb			DCN	76.13	38	iPd	05	16.60	-0.3		ALM	83.72	53	ePd	05	58.60	0.8
MBC	59.07	354	iPd	03	27.90	-1.9		1.7s		3350.00nm			7.0mb			2.2s	33.20nm				5.0mb X
	1.0s	594.00nm		6.7mb			DMU	76.23	38	iPd	05	17.30	-0.2					eS	16	15.70	
TTA	59.47	333	ePd	03	31.00	-1.9		1.3s		2940.00nm			7.1mb		UCC	83.73	39	Pc+	05	58.90	1.3
SDN	59.50	324	eP	03	32.30	-0.7	DLE	76.58	38	iPd	05	19.30	-0.1					S	16	20.50	
IMA	59.77	337	eP	03	32.50	-2.4		1.7s		2340.00nm			6.9mb					e	16	57.00	
BAO	59.81	121	eP	03	34.90	-0.9	DDK	76.67	38	iPd	05	20.00	0.0					e	21	30.00	
TMU	61.53	157	P	03	45.00	-2.0		1.7s		3120.00nm			7.0mb		DBN	83.74	37	iPd	05	59.00	1.4
TVO	61.65	237	iP	03	46.30	-1.9	DKM	76.75	38	eP	05	19.80	-0.6		EPF	83.80	47	iP	05	58.80	0.6
	0.8s	189.00nm		6.3mb				1.7s		3120.00nm			7.0mb			1.2s	765.00nm				6.6mb
PPN	61.66	238	iP	03	47.60	-0.6	ECP	76.92	39	iPd	05	21.70	0.4		LPO	83.84	45	iP	05	58.60	0.3
	0.8s	194.00nm		6.3mb				1.5s		3480.00nm			7.1mb			1.2s	234.00nm				6.1mb
PPT	61.79	238	iP	03	49.10	-0.1	STS	77.58	49	iPd	05	24.50	-0.7		RJF	83.85	44	iP	05	58.50	0.1
	0.8s	135.00nm		6.1mb			PTO	77.95	51	Pd	05	27.50	0.3			1.4s	530.00nm				6.4mb
PAE	61.85	238	iP	03	49.80	0.3				iPP	08	26.00			TCF	83.98	43	iP	05	59.30	0.3
	0.8s	140.00nm		6.1mb						iPPP	10	16.00				1.6s	806.00nm				6.5mb
AFR	61.94	238	iP	03	51.40	1.3				iS	15	14.00			DOU	84.13	39	Pd-	06	00.40	0.8
	0.8s	200.00nm		6.3mb						iSS	20	20.00						sP	06	25.90	
SOB4	62.31	111	P	03	49.00	-3.7X				iSSS	23	38.00						S	16	22.00	
			e	03	54.90		EKA	78.03	36	Pd	05	29.10	1.7					SS	21	52.00	
			e	04	28.00			1.3s		875.00nm			6.6mb		KEV	84.22	17	iP	06	00.00	0.3
SOB	62.56	111	P	03	54.10	-0.2	LIS	78.11	53	Pd	05	28.90	0.7			1.4s	1470.00nm				6.8mb
			e	04	01.60					ipP	05	51.60	86kmX					ipP	06	22.20	82kmX
			e	04	09.20					PP	09	04.00						ePP	09	16.00	
			epP	04	14.00	77kmX				S	15	22.00						epPP	09	40.00	
			esP	04	21.90		AFI	79.25	251	iP	05	32.30	-2.5					e	13	08.00	
			e	04	28.10					PP	08	16.00						eS	16	06.00	
SOB3	62.69	112	P	03	52.70	-2.5				S	15	27.00			MZF	84.25	43	eP	06	00.50	0.2
			e	03	55.60					SS	20	27.00				1.6s	1240.00nm				6.7mb
			e	03	57.90					SSS	24	00.00			WIT	84.32	36	ePd	06	02.50	2.1
			e	04	02.80					LQ	26	36.00			MLS	84.34	47	e(P)	05	53.20	-7.7X
			e	04	08.50					LR	29	42.00			CAF	84.35	45	iP	06	01.20	0.3
ANM	63.92	334	eP	04	02.00	-0.6	KHE	80.57	4	Pd	05	41.50	0.8		MGD	84.36	332	ePd	06	01.00	0.5
NKI	64.03	321	eP	04	01.40	-2.0				isP	06	08.00						epP	06	20.00	69kmX
BAA	64.69	144	P	04	04.80	-3.0X				eS	15	44.50						isP	06	27.00	
			PcP	04	18.80		BER	80.83	29	iP	05	44.00	1.7					eS	16	20.00	

24d 15h

AVF	84.54	43	iP	06	01.60	-0.1
	1.3s	449.00nm				6.4mb
SSF	84.54	42	iP	06	02.00	0.2
	1.4s	839.00nm				6.6mb
EBR	84.64	49	eP	06	04.00	1.7
			eS	16	30.00	
HEE	84.66	38	iPd	06	03.70	1.5
PYM	84.68	44	P	06	02.90	0.3
LOR	84.70	42	iP	06	03.00	0.4
	1.4s	1100.00nm				6.7mb
WTS	84.71	37	iPd	06	03.80	1.4
			i	06	22.70	
			i	06	27.80	
			ePP	09	22.00	
ALI	84.73	51	iPc	06	04.50	1.7
HFS	84.73	28	iP	06	02.50	0.1
	1.5s	1350.00nm				6.8mb
Z	24s	9.50um				6.1MszX
MEM	84.78	38	Pd	06	04.50	1.7
			ScS	16	36.60	
TIK	84.86	347	Pd	06	02.70	-0.2
			epP	06	26.50	89kmX
			esP	06	30.00	
			eS	16	21.50	
LBF	84.87	42	iP	06	03.60	0.1
	1.4s	836.00nm				6.6mb
SMF	84.91	43	iP	06	03.60	0.0
	1.5s	530.00nm				6.4mb
WLF	85.22	39	ePd	06	08.00	2.9X
			sP	06	31.00	
			PP	09	31.00	
			pPP	09	53.00	
			ScS	16	36.00	
			PPS	17	58.00	
			SS	21	56.00	
BNS	85.33	38	iPd	06	06.00	0.4
	9.0s	22.50nm				4.2mb X
			e	16	06.80	
UME	85.54	23	Pd	06	06.00	-0.4
			i	06	31.40	
			iS	16	38.70	
SOD	85.61	19	P	06	06.30	-0.4
			ipP	06	30.00	88kmX
			ePP	09	25.00	
			eS	16	38.00	
SKR	85.64	322	Pd	06	06.00	-1.1
			epP	06	28.40	83kmX
			isP	06	32.80	
			eS	16	39.00	
SSB	85.86	44	ePd	06	08.90	0.5
HAU	85.98	41	iP	06	09.10	0.1
	1.2s	572.00nm				6.5mb
COP	86.18	32	iPd	06	10.00	0.3
	1.0s	240.00nm				6.3mb
			ipP	06	33.00	85kmX
			ipPP	10	00.00	
			iSKS	16	22.00	
			iS	16	45.00	
BSF	86.33	41	iP	06	10.70	-0.1
	1.4s	375.00nm				6.3mb
TNS	86.37	38	eP	06	11.20	0.3
			i	06	12.70	
			e	06	36.60	
			e	17	47.70	
			e	18	16.00	
CDF	86.39	40	iP	06	11.30	0.2
	1.8s	381.00nm				6.2mb
ECH	86.40	40	P-	06	11.50	0.5
			eSKS	16	28.00	
			eS	16	44.00	
			eSP	17	38.00	
BAF	86.45	41	P-	06	11.60	0.2
UPP	86.59	27	iP	06	12.20	0.6
	1.3s	1300.00nm				6.9mb
			i	06	35.90	
			iPP	10	02.00	
			iSKS	16	23.00	
			iS	16	49.00	
CDR	87.28	45	P	06	15.80	0.5
DIX	87.41	42	P	06	15.20	-1.1
STU	87.41	39	i(P)d	06	16.00	0.1
	3.0s	5200.00nm				7.2mb
Z	20s	42.60um				6.9Msz
APA	87.42	17	Pd	06	15.00	-0.6
			isP	06	44.00	
			iS	16	42.00	
ZUL	87.46	41	P	06	15.80	-0.4

BUB	87.48	40	P	06	15.80	-0.5
LRG	87.76	45	eP	06	19.60	2.0
	2.0s	516.00nm				6.3mb
PNI	87.81	43	P	06	18.00	0.1
LMR	87.91	45	eP	06	20.20	1.9
	2.0s	356.00nm				6.2mb
ORO	87.96	42	P	06	20.00	1.3
			eS	17	27.00	
KJF	87.96	21	Pd	06	18.20	0.0
			ipP	06	39.60	78kmX
			ePP	09	44.00	
			epPP	10	04.00	
			ePPP	11	52.00	
			eSKS	16	40.00	
			eS	17	00.00	
MOX	88.02	37	ePc	06	19.00	0.3
	1.4s	430.00nm				6.4mb
Z	24s	58.50um				6.9MszX
E	28s	81.30um				
			ipP	06	43.00	89kmX
STV	88.09	44	P	06	19.00	-0.3
BRN	88.09	35	iPd	06	20.20	1.2
			i	10	15.20	
GRF	88.21	38	iPd	06	20.40	0.7
	3.7s	8090.00nm				7.3mb X
Z	19s	41.40um				6.9Msz
			e	06	45.00	
			ePP	09	48.00	
			eS	17	06.00	
HOF	88.31	37	iPd	06	20.40	0.2
	1.4s	560.00nm				6.6mb
Z	21s	63.00um				7.0Msz
			i	06	44.50	
			i	17	08.00	
SUF	88.35	22	iP	06	20.30	0.2
ROB	88.43	44	P	06	21.00	0.1
CLL	88.49	36	iPd	06	21.30	0.3
			i	06	23.00	
			i	06	28.00	
			sP	06	46.00	
			e	07	34.00	
			PP	09	48.00	
			e	13	50.00	
			S	17	06.00	
			sS	17	40.00	
			PS	18	36.00	
			RRPKP	52	58.00	
FUR	88.92	39	iPd	06	24.00	0.8
			iS	17	13.00	
VG1	88.96	43	P	06	25.40	2.1
NUR	89.14	25	Pd	06	24.20	0.3
			ipP	06	44.70	74kmX
			ePP	09	58.00	
			epPP	10	20.00	
			eSKS	17	00.00	
			eS	17	16.00	
BRG	89.22	36	iPd	06	24.70	0.2
	1.5s	525.00nm				6.6mb
Z	18s	54.00um				7.0Msz
N	18s	23.00um				
E	18s	43.00um				
			iS	17	15.00	
PCN	89.28	42	P	06	30.00	5.2X
			iS	17	04.00	
KEP	89.29	149	eP	06	34.00	9.5X
OGA	89.34	40	eP	06	25.80	0.4
WET	89.43	38	iPd	06	25.80	0.3
VUN	89.46	251	eP	06	27.90	1.8
SVA	89.50	251	eP	06	27.00	0.8
SAL	89.58	42	P	06	26.20	0.0
			i	06	51.00	
			e	17	26.00	
CVF	89.80	45	eP	06	28.60	1.2
	1.3s	122.00nm				6.0mb
KHC	89.84	38	iP	06	27.50	0.0
			i	06	29.00	
			i	06	52.00	
			i	08	05.00	
			i	09	12.00	
			i	09	33.00	
			i	10	25.00	
			S	17	19.00	
			e	23	30.00	
PRA	89.88	36	iPd	06	27.00	-0.6
			pP	06	53.00	97kmX
			PP	10	00.00	
			e	10	30.00	

			(SKS)	16	42.00	
			S	17	18.00	
			PPS	19	00.00	
PRU	89.98	37	iPd	06	28.20	0.2
	2.5s	1050.00nm				6.7mb
Z	19s	36.10um				6.8Msz
N	19s	15.20um				
E	19s	31.80um				
			pP	06	52.50	90kmX
			S	17	08.00	
BHG	90.08	39	eP	06	29.30	0.7
CTI	90.09	41	P	06	28.50	-0.3
			i	06	59.00	
			e	09	53.50	
			eS	17	24.50	
KMR	90.67	38	iPd	06	31.90	0.6
			pP	06	56.00	89kmX
			i	09	39.00	
			PP	10	02.00	
			e	45	12.00	
PRT	90.71	43	P	06	33.50	2.0
			ipP	06	58.00	91kmX
			iPP	09	12.00	
			iS	17	35.50	
MOA	90.85	39	ePd	06	32.00	-0.1
			i	06	34.00	
			i	07	02.00	
			e	15	09.00	
			S	17	19.00	
			SP	18	30.00	
FIR	90.86	43	P	06	33.00	0.8
			iS	17	28.00	
KIC	91.30	83	iP	06	34.50	-0.2
			S	17	34.50	
YAK	91.51	340	Pd	06	36.10	1.2
			S	17	33.40	
TRI	91.56	41	iPd	06	35.30	-0.1
			ePP	10	14.00	
			i	16	44.00	
			e	17	12.80	
			iS	17	36.00	
PUL	91.80	23	Pd	06	36.00	-0.2
			isP	07	00.00	
			eS	17	26.00	
VKA	91.85	37	iPd	06	37.20	0.5
			pP	07	02.00	92kmX
			sP	07	16.00	
			PP	10	17.00	
			pPP	10	38.00	
			S	17	37.00	
			RRPKP	52	46.00	
PRO	91.86	42	P-	06	40.00	3.2X
LJU	91.88	40	eP	06	37.00	0.1
			i	06	38.90	
			ePP	09	56.59	
			eSKS	17	12.00	
			eS	17	38.00	
VIE	91.88	37	iPd	06	37.50	0.7
			pP	07	02.00	90kmX
			PP	10	22.00	
			PS	18	47.00	
			PKKP	23	51.00	
			e	54	00.00	
PRG	91.90	43	P	06	39.00	1.9
			e	17	31.00	
SOP	92.28	38	ePd	06	37.00	-1.7
MNS	92.41	44	P-	06	39.30	0.0
			ipP	07	10.00	117kmX
NRI	92.50	358	Pd	06	38.60	-0.6
			isP	07	03.00	
RMP	92.69	44	P	06	41.00	0.3
			iPP	10	40.00	
			iS	17	50.00	
			iPS	19	24.00	
AQU	92.90	44	P	06	42.00	0.3
			ePP	11	09.00	
KRA	92.94	35	ePd	06	41.30	-0.3
	1.2s	429.00nm				6.8mb
Z	31s	130.00um				7.2MszX
			i	06	43.30	
			i	06	45.80	
			i	06	51.30	
			i	07	10.80	
			i	10	22.00	
			i	15	28.00	
			i	17	42.00	
			e	32	01.60	

TABLE 4-22

24d 15h

			e	32	07.30			BUC	99.61	37	eP	07	06.00	-6.1X					PP	13	26.00				
KUR	93.01	320	Pd	06	42.00	0.0		WEL	99.63	230	P	07	14.00	1.9					SKS	19	36.00				
			isP	07	06.00						pP	07	36.00	80kmX					SKKS	20	51.00				
			eS	17	48.00						e	08	17.00						eSS	29	47.00				
SRO	93.23	37	iP	06	43.60	0.6					PP	11	22.00		TLG	118.68	4	ePdiff08	38.00	0.9					
N	26s	43.30um									SKS	17	51.00		NJ2	118.69	324	Pdiff	08	40.00	2.7X				
E	26s	83.30um									ScS	18	53.00						PP	13	33.00				
			i	07	11.70						SP	20	06.00						SKS	19	10.00				
			i	07	11.70						PPS	20	35.00		CAN	118.70	239	PKP	12	28.20	11.0X				
			i(PP)	10	37.00						PKKS	25	39.00		WAM	118.83	238	PKP	12	22.40	5.1X				
			e	17	21.00			PVL	99.83	38	Pd	07	13.00	-0.2	FRU	118.89	6	ePdiff08	39.00	1.0					
			i(S)	17	46.80			MIZ	100.47	317	ePdiff07	18.00	2.0		DRV	118.99	203	PKP	12	15.00	-1.6				
NIE	93.49	35	iPd	06	46.30	2.1					(SKS)	10	43.00						ePP	13	36.00				
SPC	93.58	35	eP	06	46.30	1.4		DIM	100.73	39	ePdiff07	20.00	2.9X						eSP	23	22.00				
Z	18s	124.00um				7.4Msz		KDZ	100.83	39	Pdiffd07	17.00	-0.6		TEH	119.08	28	ePKP	12	15.00	-3.0X				
			i	06	48.80			ATH	101.92	43	iPdiff07	24.00	1.5		YOU	119.15	240	PKP	12	19.60	1.6				
			i(pP)	07	09.70	86kmX					iS	11	12.00		CTA	119.44	257	ePdiff08	40.00	-0.9					
			ePP	10	33.70						iPP	11	36.00		CTA	119.44	257	iPKP	12	17.40	-1.5				
BUD	93.81	37	ePd	06	47.00	1.3		EZN	102.50	41	Pdiff	07	26.30	1.2					iPP	13	48.00				
			epP	07	10.00	84kmX		EDC	103.13	39	Pdiff	07	29.00	1.1					iSKP	15	44.20				
DUI	93.92	44	P	06	45.00	-1.3		ARU	103.14	13	Pdiffd07	26.80	-0.7						iSKS	19	08.00				
			ePP	10	14.50			SVE	103.17	12	Pdiffd07	28.00	0.4						iSKKS	20	33.00				
SGG	94.00	44	P	06	47.00	0.2		IST	103.37	38	Pdiff-07	29.20	0.3						iPKKP	22	32.00				
JOS	94.12	36	eP	06	48.00	0.9					S	18	24.00						iPS	23	28.00				
	1.8s	440.00nm				6.6mb		ISK	103.39	38	Pdiff	07	35.00	6.0X	PRZ	119.52	3	ePdiff08	31.00	-10.0X					
BLY	94.14	40	iP	06	49.00	1.7		MAT	103.84	316	Pdiff+07	32.00	0.8		WIN	119.60	106	ePdiff08	52.00	10.2X					
OVO	94.28	45	P	06	49.00	0.9		IZM	103.94	41	Pdiff	07	33.00	1.4		1.2s	56.20nm								
UZH	95.01	35	Pd	06	51.00	-0.2		HNR	104.08	265	ePdiff07	40.00	7.3X			Z 18s	17.80um				6.7Msz				
			eS	17	57.00			ALT	105.29	39	Pdiff	07	38.60	0.9					i	12	19.60				
YSS	95.13	323	Pc	06	52.00	0.2		ANTO	106.34	37	ePdiff07	44.00	1.7		TAS	119.63	11	ePdiff08	40.00	-1.3					
			epP	07	14.00	80kmX			3.0s	256.00nm			6.8mb		SHD	120.00	25	ePKP	12	21.00	1.3				
			esP	07	18.00			CN2	106.48	329	Pdiff	07	43.00	0.3	TAU	120.02	231	ePdiff09	12.00	29.0X					
			iS	17	54.00						e	11	52.00		TAU	120.02	231	ePKP	12	21.00	1.7				
LVV	95.25	33	Pd	06	52.70	0.4					PP	12	13.80						ePP	13	42.00				
			iS	18	00.00			BCK	106.59	40	Pdiff	07	44.00	0.6					eSKS	19	16.00				
GIB	95.36	47	P	06	53.00	-0.2		KVT	107.33	35	Pdiff	07	51.00	4.4X					e	20	46.00				
			i	10	24.00			SPA	108.11	180	iPdiff08	01.10	11.5X						e	22	28.00				
KUK	95.47	82	P	06	54.00	0.1			0.5s	33.50nm									e	23	20.00				
CEI	95.64	36	eP	06	50.00	-4.1X			Z 20s	38.20um			7.0Msz						eSS	30	08.00				
TIM	96.03	38	eP	06	58.00	2.1		SHK	108.65	317	ePdiff07	54.50	1.9						eSSS	33	38.00				
BEO	96.08	39	P	06	56.60	0.4		SBA	108.76	193	Pdiff	08	14.00	21.9X	JAY	120.27	278	ePKP	12	19.00	-1.7				
			iPP	10	38.20						e	09	10.00		ANR	120.67	8	ePdiff08	48.00	2.0					
			eSKS	17	37.00						e	11	43.00		SAM	120.77	13	ePdiff08	45.00	-1.5					
			e	18	05.00						PP	12	24.00		TOO	121.57	237	ePKP	12	21.00	-1.5				
BRT	96.11	44	P+	06	53.50	-2.9					SKS	18	32.00						eS	26	05.00				
BMR	96.22	35	eP	07	00.00	3.2X					e	20	14.00		MAIO	121.81	21	Pdiff	08	54.10	2.9X				
SSR	96.82	38	eP	07	00.00	0.4					PS	21	40.00						i	12	23.20				
DEV	96.92	37	eP	07	00.00	0.0					SP	22	20.00						i	13	57.30				
GZR	97.13	38	eP	07	02.00	1.0					SS	27	28.00						eS	22	34.80				
MOS	97.42	23	Pd	07	02.00	0.0					e	45	20.00		LZH	122.10	339	Pdiff	08	51.50	-1.1				
OBN	97.45	24	Pd	07	02.00	-0.1		UER	109.68	352	ePdiff07	55.00	-1.7						PP	13	56.50				
TIR	97.59	42	P	07	05.20	2.1		RAB	109.94	272	ePdiff08	04.00	5.2X		DSH	122.21	12	Pdiffd08	55.00	2.1X					
KMU	97.60	319	eP	07	03.20	0.1			Z 20s	35.50um			6.9Msz		WHN	122.28	327	Pdiff	08	58.00	4.7X				
KRP	98.13	233	eP	07	06.00	0.7		GUA	110.23	292	e(Pdiff08	01.00	1.0						PP	13	57.00				
			e	07	24.00			GUMO	110.25	292	e(Pdiff08	01.00	0.9		KSH	122.37	5	Pdiff	08	56.00	2.3X				
			PP	11	04.00			GRO	110.33	27	ePdiff08	00.00	0.2						e	12	23.00				
			PKKP	23	34.00			BKR	110.62	30	Pdiffd08	02.00	0.6						PP	14	02.00				
			e	24	08.00			LEN	111.53	30	ePdiff08	08.00	2.5X						eSKS	19	35.00				
			e	24	34.00			SEM	111.66	1	ePdiff08	07.00	1.4						eSKKS	21	03.00				
			PcPP'	27	04.00			HLW	111.82	46	iPdiff08	09.00	2.2X		KHI	123.44	23	iPKPc	12	26.00	-0.4				
			e	27	26.00				Z 22s	24.00um			6.7Msz		TTN	123.99	315	PKP	12	28.20	0.7				
SAP	98.15	320	eP	07	05.00	-0.5					iS	13	00.00		QZH	124.10	319	Pdiff	09	05.00	3.4X				
SKO	98.24	41	iPd	07	06.00	0.0		ERE	112.30	30	Pdiff	08	11.00	2.2X					e	12	22.00				
			i	07	08.30			KRV	112.78	29	ePdiff08	13.00	2.2X						PP	14	04.80				
			i	07	31.00			NVL	113.65	160	ePdiff08	21.00	7.0X						eSKS	19	43.50				
			iPP	11	05.00			GRS	113.70	29	Pdiffd08	11.00	-4.2X						SKKS	20	51.00				
			i	11	30.00			BNG	113.74	77	iPdiff08	17.50	1.8		SHI	124.66	31	ePKPd	12	28.00	-0.9				
			iPPP	13	04.00				1.2s	22.10nm					TGI	124.70	23	ePKP	12	28.40	-0.5				
			i	15	07.00			BJI	113.77	332	ePdiff08	15.00	-0.2		HEN	124.77	315	ePKP	12	32.00	3.0X				
			iSKKS	18	01.00				Z 23s	50.00um			7.1MszX		ISQ	125.74	257	PKPc	12	30.60	-0.5				
			i(PS)	20	27.00				N 23s	37.00um					KAAO	126.14	13	ePKP	12	31.00	-0.8				
OHR	98.31	42	iP	07	06.10	-0.3					ePP	13	00.00			2.0s	290.00nm								
			i	07	31.50			EIL	114.44	44	Pdiff	08	21.00	2.5X					i	12	59.00				
CMP	98.50	37	ePc	07	08.00	0.9		TAB	114.84	30	ePdiff08	23.00	2.8X		KBL	126.14	13	e(Pdiff09	19.00	8.2X					
IAS	98.71	34	eP	07	09.00	1.0					e	12	13.00		CDU	126.91	336	PKP	12	32.00	-1.1				
BAL	98.74	35	eP	07	10.00	1.9					e	12	55.00						PP	14	27.00				
MLR	98.87	36	eP	07	10.00	1.0					i	13	04.00						ePKS	16	14.60				
MNG	98.93	230	eP	07	12.00	3.0X		BTO	115.86	336	Pdiff	08	26.00	1.3					SKS	19	38.00				
SOF	99.00	40	Pd	07	07.00	-2.5					PP	13	16.50		ADE	127.13	240	PKP	12	33.00	-0.4				
VRI	99.08	35	eP	07	10.00	0.3		TIA	116.38	329	Pdiff	08	28.00	1.0	CNP	127.84	303	ePKPd	12	35.00	-0.2				
VAY	99.31	41	eP	07	11.00	0.2					PP	13	19.00						eS	14	38.00				
			i	07	36.00			BHD	117.56	35	ePKP	12	18.00	3.1X	LGP	128.21	304	ePKPd	12	35.70	-0.1				
ODB	99.32	35	eP	07	13.00	2.2		WMQ	118.03	355	Pdiff	08	35.80	1.6	GRM	128.59	118	iPKPc	12	36.00	-0.2				
BIR	99.32	35	eP	07	08.00	-2.8					PP	13	27.80			2.1s	293.00nm								
KIS	99.51	34	Pd	07	11.00	-0.6					SKKS	20	24.80			Z 22s	22.00um				6.8Msz				
			isP	07	35.00			SSE	118.06	322	Pdiff	08	36.00	1.5					e	24	56.00				
BOD	99.59	343	Pd	07	11.30	-0.5					e	12	10.00		BAG	128.60	310	PKPd	12	34.00	-2.8X				

TABLE 4-23

		e	14 30.00		
GZH	128.66	322	PKP	12 34.90	-1.6
		PP	14 41.40		
		PKS	15 58.90		
HKC	128.77	321	PKP	12 36.00	-0.7
KSR	128.84	109	iPKPc	12 37.00	-0.1
MAW	129.17	171	ePKP	12 35.00	-1.1
MAN	129.34	308	ePKP	12 39.60	1.6
		eS	14 45.00		
OCP	129.36	308	PKP	13 28.10	50.1X
GYA	129.45	331	PKP	12 35.60	-2.5X
		PP	14 49.60		
		PKS	15 59.60		
AAE	129.62	61	ePdiff	09 30.00	3.1X
QUE	129.79	17	PKP	12 26.60	-12.2X
BUL	129.90	101	ePKPc	12 38.00	-1.2
Z	20s	36.90um			7.1Msz
N	20s	16.30um			
E	20s	19.10um			
PRE	130.00	109	ePKP	12 38.20	-1.0
2.3s	309.00nm				
		i	24 54.20		
DAV	130.02	296	PKPd	12 38.00	-1.4
		eS	14 56.00		
KRI	130.35	97	ePKP	12 38.00	-2.1
BHK	130.37	6	PKP	12 42.40	2.8X
WB2	130.48	259	PKP	12 21.20	-18.9X
		i	12 39.30		
		i	12 59.50		
		i	15 12.70		
ASP	131.26	254	ePKP	12 24.00	-17.6X
		eS	16 04.00		
ARO	131.50	55	iPKPd	12 43.50	1.3
		e	14 52.10		
		i	15 02.00		
		i	16 36.50		
KKR	131.85	6	PKP	12 44.00	1.6
MTN	132.29	269	ePKP	12 44.00	0.4
KMI	132.33	334	PKP	12 32.00	-11.8X
		e	12 43.00		
		PKP	12 46.00		
		pPKP	13 02.00		
		sPKP	13 09.00		
		PP	15 00.00		
		PKS	16 12.00		
AAI	132.38	282	e(PKP)	12 31.50	-12.4X
NAI	132.75	74	ePKP	12 47.00	2.1
2.0s	588.00nm				
CIR	132.76	102	PKP+	12 46.00	1.6
NDI	133.16	6	ePKP	12 45.00	0.0
Z	20s	21.30um			6.9Msz
N	20s	23.40um			
E	20s	17.70um			
		ePP	15 12.00		
MNI	133.37	290	ePKP	12 46.50	0.7
TOC	133.56	344	PKP	12 56.00	10.3X
CNG	133.61	109	ePKP	12 44.00	-1.9
2.0s	199.00nm				
		e	15 17.00		
		e	15 56.00		
		e	16 12.00		
		e	17 34.00		
		e	17 46.00		
		e	24 40.00		
TET	133.98	95	ePKP	12 50.00	3.2X
		e	13 12.00		
		e	15 39.00		
PPR	134.15	304	ePKP	12 50.00	2.8X
KNA	135.11	266	ePKP	12 38.00	-10.9X
AJM	135.18	9	PKP	12 49.00	0.2
		PP	15 24.00		
CLK	135.23	94	PKP+	12 50.00	0.7
SHL	135.38	347	PKP	12 35.00	-14.5X
VAR	136.72	358	PKP	12 52.00	0.2
		PP	15 34.00		
AGT	137.15	347	PKP	12 54.00	1.4
		PP	15 39.00		
BOK	138.02	355	PKP	12 54.90	0.6
		PKS	16 23.90		
KUPT	138.77	275	ePKP	12 57.50	1.6
CAL	138.99	351	PKP	13 07.00	11.0X
		PP	16 37.00		
NPA	139.18	92	ePKP	12 49.00	-7.6X
		e	13 01.00		
		e	15 53.00		
NHA	139.43	316	PKP	12 59.00	2.0
CHG	139.52	335	ePKP	12 48.50	-8.7X

1.0s	115.00nm				
		eS	26 03.00		
BDT	140.90	333	iPKPd	12 07.60	-52.0X
1.3s	716.00nm				
MKS	141.02	285	ePKPd	13 00.00	0.0
KLG	142.01	243	ePKP	12 54.00	-7.3X
BOM	142.07	14	PKP	12 59.00	-2.7X
POO	142.64	12	PKP+	12 59.00	-3.7X
MBL	144.13	259	PKPc	13 00.90	-4.2X
VIS	144.25	358	PKP	13 08.00	2.6X
HYB	144.44	5	PKP	13 02.50	-3.3X
		pP	16 09.50		
		SKS	19 38.00		
NWAO	145.04	238	PKPd	13 04.10	-2.3
MEK	145.12	249	ePKP	13 04.00	-2.8X
GOA	145.59	14	PKP	13 03.00	-4.7X
		PP	16 15.00		
MUN	146.13	239	ePKP	13 08.00	-0.3
SWV	146.27	240	ePKP	13 08.00	-0.5
AVY	147.72	97	iPKPd	13 11.70	0.3
GBA	148.08	8	PKP	13 11.00	-0.8
NAU	148.17	256	PKPd	13 13.10	1.4
TRT	148.24	285	iPKPc	13 12.20	0.1
1.2s	556.00nm				
PBA	148.41	339	PKP	13 19.00	6.7X
		PP	17 13.00		
		SKKS	23 53.00		
SNG	148.67	322	ePKP	13 14.00	1.2
1.9s	61.00nm				
		eS	27 00.00		
MDR	148.93	3	PKP	13 18.00	4.9X
IPM	150.46	318	ePKPd	13 14.10	-1.4
1.7s	360.00nm				
KGM	150.79	311	ePKPc	13 16.80	0.8
1.6s	455.00nm				
KOD	151.40	9	ePKP	13 17.00	-0.3
		e	13 30.00		
		e	13 31.00		
		PKS	16 56.00		
		ePP	17 02.00		
		SKS	20 23.00		
		PPP	20 36.00		
		SKSP	27 12.00		
		LQ	04 59.00		
LEM	152.42	291	iPKPc	13 19.00	0.4
2.0s	588.00nm				
TSI	152.82	321	ePKPd	13 20.10	1.1
TRD	153.03	11	PKP	13 18.00	-1.2
PSI	153.23	319	ePKPd	13 19.00	-0.5
1.5s	800.00nm				
PPI	154.59	312	ePKP	13 20.10	-1.3
1.2s	190.00nm				
S.D. = 1.1 on 457 of 540 obs.					

& NOV 08, 1980 10h 27m 33.03s
41.088 N 124.643 W
DEPTH = 12.8km (geophysicist)
6.2mb (52 obs.) 7.3Msz (12 obs)
NEAR COAST OF NORTHERN CALIF. (35)
<GS>. Six people injured and damage (VII) in the Fields Landing area. One person injured at Fortuna. Slight damage (VI) at many communities along the coast from Rio Dell, California to Brookings, Oregon. Total damage estimated at 1.75 million dollars. Small landslides and liquefaction occurred along the Eel River and the Big Lagoon sand spit. Felt in an area of approximately 97,000 sq. km. from northern Oregon to the San Francisco Bay area, as well as in parts of western Nevada.

FHC	0.57	120	iPc	27 44.30	-0.2
KBRM	0.63	124	iPc	27 45.12	-0.4
KCTM	0.65	159	iPd	27 45.62	-0.2
WKC2	0.75	159	iPd	27 46.80	-0.6
KMPM	0.78	149	iPd	27 47.26	-0.7
KGMM	0.80	114	iPc	27 47.92	-0.6
KCRM	0.91	136	iPc	27 49.26	-1.0
KBBM	1.08	146	iPc	27 51.92	-1.1
KPPM	1.22	127	iPc	27 54.03	-1.6
KKPM	1.37	133	iPc	27 55.10	-2.8
KBSM	1.42	145	iPc	27 56.73	-1.8

KIPM	1.56	145	iPc	27 58.69	-1.9
KCPM	1.62	149	iPd	27 59.71	-1.8
KBNM	1.63	137	iPc	28 00.01	-1.6
WDC	1.67	107	iPc	28 00.40	-1.8
KFPM	1.72	147	ePc	28 00.76	-2.1
KSPM	1.80	151	ePd	28 01.37	-2.6
LGBM	1.87	81	iPc	28 03.91	-1.3
KRKM	1.89	143	iPc	28 03.29	-2.1
GCBM	1.91	153	ePd	28 02.57	-3.0
GBDM	1.94	148	iPd	28 03.86	-2.1
GRNM	2.08	156	iPd	28 05.28	-2.7
GHMM	2.09	141	iPc	28 05.65	-2.6
LBFM	2.09	82	iPc	28 07.34	-1.1
LTCM	2.11	114	iPc	28 06.51	-1.9
GWRM	2.14	151	iPd	28 06.60	-2.4
LPDM	2.23	86	iPc	28 08.84	-1.5
VCMM	2.23	62	iPc	28 09.37	-1.1
GCWM	2.29	148	iPd	28 08.93	-2.3
LMHM	2.30	77	iPc	28 10.00	-1.5
GAFM	2.35	158	iPd	28 09.01	-3.0
GHLM	2.39	148	iPc	28 10.13	-2.5
LMZM	2.40	102	iPc	28 10.85	-1.8
GHGM	2.40	144	iPc	28 10.35	-2.4
GSNM	2.42	152	iPd	28 10.44	-2.5
MIN	2.43	107	iPc	28 10.67	-2.5
LCFM	2.44	103	iPc	28 11.39	-1.9
LSLM	2.45	104	iPc	28 11.41	-2.0
LRDM	2.50	103	iPc	28 12.26	-1.8
OCHM	2.51	118	iPc	28 11.24	-2.9
GMKM	2.55	145	ePc	28 11.57	-3.3
LCMM	2.56	111	iPc	28 12.67	-2.4
GDCM	2.56	155	iPd	28 12.20	-2.7
VSCM	2.57	27	iPd	28 13.21	-1.9
GMCM	2.57	153	iPd	28 12.39	-2.7
GPMM	2.59	149	iPd	28 13.24	-2.2
VCLM	2.60	46	iPd	28 14.55	-1.1
GGLM	2.62	146	iPd	28 13.92	-1.9
GWKM	2.62	140	iPc	28 13.57	-2.3
GRTM	2.63	144	ePc	28 13.26	-2.7
GCVM	2.63	151	iPd	28 13.47	-2.5
LHKM	2.64	103	iPc	28 14.57	-1.7
GMOM	2.64	154	iPd	28 12.72	-3.4
GBOM	2.65	148	ePc	28 13.67	-2.6
GSGM	2.67	146	iPc	28 14.60	-1.9
GFTM	2.68	148	iPd	28 14.35	-2.4
GDXM	2.68	147	iPd	28 14.77	-2.0
SKG	2.69	152	iPd	28 14.15	-2.7
GGPM	2.70	149	iPd	28 14.65	-2.4
GCMM	2.70	147	iPd	28 15.05	-2.0
GHCM	2.72	155	iPd	28 14.10	-3.1
GSMM	2.72	148	iPd	28 15.00	-2.3
OGOM	2.72	121	iPc	28 13.78	-3.5
GBGM	2.73	146	iPd	28 15.74	-1.7
GCRM	2.75	147	iPd	28 15.53	-2.1
GAXM	2.78	148	iPd	28 15.82	-2.3
OSUM	2.80	129	iPc	28 15.42	-2.9
FTR	2.80	156	ePd	28 15.51	-2.9
OTBM	2.82	122	iPc	28 15.32	-3.2
OBHM	2.82	120	iPc	28 15.76	-3.0
NHBM	2.83	151	ePd	28 16.08	-2.7
NMTM	2.84	143	ePd	28 16.73	-2.1
ORV	2.85	121	iPc	28 15.85	-3.2
NMHM	2.87	147	iPd	28 17.17	-2.2
OSTM	2.90	125	iPc	28 16.63	-3.0
PAM	2.90	123	iPc	28 16.52	-3.1
OWYM	2.92	123	ePc	28 17.00	-2.9
MAC	2.93	149	iPd	28 17.67	-2.5
VHYM	2.94	65	iPc	28 18.52	-1.9
VGMM	2.95	31	ePd	28 19.20	-1.3
ORAM	2.95	122	iPc	28 17.65	-2.8
NWRM	2.96	152	iPd	28 17.78	-2.7
KPK	2.96	119	iPc	28 18.00	-2.6
OHCM	2.99	125	iPc	28 17.72	-3.2
VHBM	2.99	54	iPc	28 19.81	-1.3
NSHM	3.01	148	iPc	28 18.92	-2.3
NBPM	3.07	141	ePc	28 20.00	-2.0
NTMM	3.09	150	iPd	28 19.72	-2.7
VWMM	3.10	44	iPd	28 21.63	-1.2
AOHM	3.11	122	iPc	28 20.08	-2.6
ABRM	3.11	128	ePc	28 19.50	-3.1
NCFM	3.11	152	iPd	28 19.96	-2.7
NDHM	3.13	137	ePc	28 20.87	-2.0
NTBM	3.13	154	ePd	28 19.91	-3.0
CRD	3.19	148	iPd	28 21.51	-2.4
BBR	3.25	150	iPd	28 22.18	-2.6
ABJM	3.27	125	iPc	28 22.23	-2.8
LOC	3.29	152	iPd	28 22.18	-3.1

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AARM	3.31	122	iPc	28	23.43	-2.2	VTCM	4.40	29	iPd	28	31.37	-9.8	PRS	5.39	151	iPnd	28	51.30	-3.8
AVRM	3.31	127	iPc	28	22.40	-3.1	SVC	4.40	149	ePd	28	38.47	-2.6	LRV	5.45	148	ePd	28	52.76	-3.2
MIX	3.33	142	ePc	28	23.83	-2.1	MHC	4.41	147	iPnd	28	38.80	-2.5	LHV	5.52	119	ePd	28	55.12	-1.7
NPRM	3.33	157	ePd	28	23.05	-2.8	VGTM	4.42	22	iPd	28	39.51	-1.8	BPPM	5.54	151	ePd	28	52.94	-4.4
SNT	3.36	149	iPd	28	23.43	-2.8	LT15	4.42	152	ePd	28	37.57	-3.8	LMCR	5.54	125	ePd	28	56.57	-0.9
ALNM	3.36	129	ePc	28	23.43	-2.8	CRH	4.43	132	ePc	28	39.12	-2.3	HCK	5.56	121	ePc	28	55.72	-1.7
NOLM	3.36	154	ePd	28	23.55	-2.7	SOS	4.44	151	ePd	28	38.37	-3.4	HVC	5.58	146	ePd	28	54.52	-3.2
GVR	3.37	145	iPd	28	24.30	-2.1	ARN	4.45	146	iPd	28	39.31	-2.4	BTW	5.58	147	ePd	28	54.80	-3.0
AFRM	3.42	131	ePc	28	23.73	-3.3				eS	29	34.65		LRC	5.59	149	ePd	28	54.17	-3.8
ARWM	3.42	127	iPc	28	24.04	-3.0	JSTM	4.46	149	ePd	28	38.51	-3.4	FRI	5.61	135	iPc	28	56.11	-2.1
APRM	3.44	129	iPc	28	24.27	-3.0	COE	4.47	148	ePd	28	39.50	-2.5	MNV	5.66	116	ePd	28	56.23	-2.8
VSBM	3.45	44	iPd	28	26.50	-1.2	MOYM	4.48	134	ePc	28	39.43	-2.7	BMN	5.67	94	ePnc	28	55.50	-3.7
VMHM	3.47	28	iPd	28	25.80	-2.0	AMC	4.49	150	ePd	28	38.74	-3.5	PJLM	5.69	150	ePd	28	54.95	-4.3
ARRM	3.54	130	iPc	28	25.51	-3.2				S	29	32.82					iS	30	00.30	
NLHM	3.54	146	iPd	28	26.58	-2.2	JAS	4.52	133	ePc	28	40.81	-1.9	CLKR	5.70	126	ePc	28	59.16	-0.6
AHRM	3.54	128	iPc	28	26.11	-2.7	VIPM	4.52	40	iPd	28	41.18	-1.7	MOP	5.72	147	ePd	28	56.72	-3.1
ADC	3.54	126	iPc	28	25.96	-2.9	JHLM	4.53	150	ePd	28	39.52	-3.5	PRCM	5.76	146	ePd	28	57.55	-2.7
NTPM	3.55	152	iPd	28	25.30	-3.6	CMPM	4.54	144	iPd	28	41.17	-1.8	PAPM	5.77	152	ePd	28	56.30	-4.2
AFHM	3.59	123	iPc	28	27.42	-2.3	GCC	4.55	152	iPnd	28	39.40	-3.7	ORC	5.78	125	ePc	28	59.33	-1.4
AGIM	3.60	127	iPc	28	26.85	-2.8	JRGM	4.55	152	iPd	28	39.60	-3.6	BONR	5.82	120	ePc	28	59.15	-2.2
NFIM	3.62	159	iPd	28	26.80	-3.1	JUCM	4.55	153	ePd	28	39.44	-3.7	PRI	5.84	146	iPnd	28	59.10	-2.4
CDSM	3.62	149	iPd	28	28.55	-1.5	VBEM	4.56	28	iPc	28	41.54	-1.8	PTV	5.84	147	ePd	28	58.99	-2.5
VPMM	3.63	53	iPc	28	28.81	-1.4	MSTM	4.57	133	ePc	28	41.17	-2.2	PSAM	5.85	149	ePd	28	57.79	-3.7
VWBM	3.63	38	iPd	28	28.95	-1.3	ADR	4.57	148	ePd	28	40.65	-2.8	PARM	5.89	144	ePd	29	00.39	-1.7
COR	3.63	15	iPnd	28	27.00	-3.1	MMWM	4.58	130	ePc	28	41.94	-1.8	PSMM	5.93	146	ePd	29	00.44	-2.3
AGC	3.65	151	iPd	28	27.54	-2.8	CBO	4.59	149	ePd	28	40.14	-3.5	PBYM	5.96	151	ePd	28	58.77	-4.3
HMR	3.66	142	ePd	28	29.53	-1.0	JTGM	4.59	151	ePd	28	40.23	-3.5	PCRM	5.98	145	ePd	29	00.90	-2.4
DUC	3.67	145	ePd	28	29.40	-1.3	EUC	4.59	150	ePd	28	40.44	-3.4	PIVM	6.03	148	ePd	29	00.55	-3.6
JPRM	3.69	152	ePd	28	27.98	-3.0	JRRM	4.62	150	ePd	28	40.65	-3.6	PHCM	6.05	152	ePd	29	00.38	-4.0
BKS	3.71	149	iPnd	28	28.30	-3.0	JBZM	4.63	150	ePd	28	41.23	-3.1	PANM	6.06	150	ePd	29	00.53	-3.9
ARJM	3.71	129	iPc	28	28.57	-2.8	PEV	4.65	151	iPd	28	41.18	-3.4	TRC	6.09	146	ePd	29	02.29	-2.6
VGPM	3.72	23	iPd	28	29.25	-2.2	HSPM	4.65	147	iPd	28	41.91	-2.8	PHGM	6.14	147	ePd	29	02.73	-2.9
BKC	3.72	147	iPc	28	29.53	-1.9	VJYM	4.67	34	iPd	28	42.45	-2.4				iS	30	18.10	
ALAM	3.79	130	ePd	28	29.65	-2.8	HGWM	4.68	149	ePd	28	41.42	-3.7	PKF	6.17	146	ePd	29	03.30	-2.7
CRPM	3.81	145	ePd	28	29.88	-2.8	GHS	4.70	147	iPd	28	42.51	-2.9	WKR	6.18	147	ePd	29	02.72	-3.5
CMCM	3.81	149	ePd	28	30.11	-2.6	HCZM	4.72	151	ePd	28	42.15	-3.5	PADM	6.20	150	ePd	29	02.25	-4.2
BGC	3.83	148	iPd	28	30.72	-2.3	PKC	4.72	150	ePd	28	42.48	-3.2	PHAM	6.21	146	ePd	29	03.73	-2.9
MGA	3.83	153	ePd	28	29.79	-3.2	HCPM	4.73	144	iPd	28	44.10	-1.6	PBRM	6.22	152	ePd	29	02.05	-4.7
AODM	3.90	128	iPc	28	31.80	-2.1	CDC	4.74	148	iPd	28	42.94	-3.0	GHC	6.23	146	ePd	29	03.92	-3.0
LKC	3.90	148	iPd	28	31.45	-2.4	MBFM	4.75	134	ePc	28	43.52	-2.5	PSRM	6.24	145	ePd	29	04.22	-2.9
SAC	3.90	153	ePd	28	30.45	-3.5	CBC	4.76	150	ePd	28	42.62	-3.5	PPRM	6.25	149	ePd	29	03.11	-4.1
CRAM	3.92	147	iPd	28	32.59	-1.6	VHEM	4.76	26	iPc	28	44.44	-1.9	PMCM	6.32	147	ePd	29	04.86	-3.3
MTC	3.94	145	ePd	28	32.43	-2.1	CSR	4.76	149	ePd	28	42.33	-3.9				eS	30	21.90	
ADWM	3.94	131	ePc	28	31.93	-2.6	HCOM	4.78	150	ePd	28	42.84	-3.6	PMRM	6.32	145	ePd	29	05.29	-3.0
JECM	3.95	154	ePd	28	31.30	-3.3	PCL	4.80	146	ePd	28	44.38	-2.3	PAGM	6.36	146	ePd	29	05.97	-2.8
CSH	3.97	149	ePd	28	32.60	-2.3				eS	29	41.10		PSHM	6.41	147	ePd	29	05.82	-3.7
PCC	3.99	153	iPnd	28	31.70	-3.4	SFL	4.81	147	ePd	28	43.90	-3.0	PCGM	6.43	150	ePd	29	05.56	-4.2
VSMM	3.99	16	iPd	28	33.90	-1.3	ANZ	4.82	149	ePd	28	43.28	-3.8	PTRM	6.44	146	ePd	29	07.08	-2.9
DOO	4.00	146	ePd	28	33.41	-1.9	OCR	4.83	149	ePd	28	43.72	-3.4	TNP	6.47	115	ePnc	29	07.60	-2.9
CBSM	4.02	144	ePd	28	34.20	-1.4	VLMM	4.84	22	iPd	28	45.47	-1.8	PMGM	6.51	149	ePd	29	06.61	-4.3
PLC	4.03	148	iPd	28	33.39	-2.4	DIL	4.85	150	ePd	28	43.45	-3.9	GMW	6.59	11	ePn	29	09.10	-2.9
CPNM	4.05	147	ePd	28	34.66	-1.4	HSLM	4.86	144	iPd	28	46.71	-0.9	EUR	6.82	101	iPn	29	13.10	-2.4
JHPM	4.07	153	ePd	28	32.38	-3.9	VMNM	4.87	31	iPd	28	45.24	-2.4	WASM	7.16	136	ePc	29	18.22	-2.0
CVLM	4.08	147	iPd	28	34.92	-1.6	HFHM	4.87	148	ePd	28	45.05	-2.6	CFWM	7.18	131	ePc	29	19.77	-0.6
CSAM	4.10	145	ePd	28	35.39	-1.3	HBTM	4.87	149	ePd	28	44.11	-3.6	WKTM	7.18	135	ePc	29	18.53	-1.8
CTLM	4.14	145	iPd	28	35.42	-1.9	HJGM	4.91	150	ePd	28	44.28	-3.9	CPTM	7.31	131	ePc	29	21.62	-0.5
WCN	4.14	114	ePn	28	35.50	-2.0	PKH	4.92	148	ePd	28	46.07	-2.3	WHFM	7.31	135	ePc	29	20.40	-1.7
SFT	4.15	152	ePd	28	33.96	-3.4	HSFM	4.92	149	ePd	28	45.06	-3.4	WCHM	7.32	133	ePc	29	21.60	-0.8
			iS	29	25.23		LTR	4.94	147	ePd	28	45.62	-3.0	RVCM	7.33	132	ePc	29	20.70	-1.7
BGH	4.15	154	ePd	28	33.58	-3.8	MTR	4.95	154	iPd	28	44.54	-4.2	HWSM	7.33	131	iPc	29	22.05	-0.5
VFBM	4.15	50	iPd	28	35.98	-1.7	FRP	4.98	149	ePd	28	45.18	-4.1	CGSM	7.35	129	ePc	29	21.60	-1.2
MSJ	4.16	148	iPd	28	35.36	-2.3	SAO	4.98	149	iPnd	28	46.10	-3.2	WHVM	7.36	137	ePc	29	21.28	-1.6
MNHM	4.17	134	ePc	28	34.70	-3.0	HJSM	5.00	147	ePd	28	46.11	-3.4	WORM	7.36	135	ePc	29	21.60	-1.3
VBPM	4.18	30	iPd	28	35.77	-2.3	BVYM	5.01	149	iPd	28	46.04	-3.7	WBMM	7.37	138	ePc	29	21.28	-1.9
LTW	4.18	152	ePd	28	34.60	-3.3	BSLM	5.01	148	iPd	28	46.67	-3.0	CSSM	7.39	131	ePc	29	22.66	-0.6
VHOM	4.18	9	ePd	28	34.65	-3.3	BSRM	5.04	150	ePd	28	46.22	-3.9	WWPM	7.42	134	ePc	29	21.98	-1.7
MNR	4.20	145	iPd	28	36.15	-2.0				iS	29	44.93		WLPM	7.42	137	ePc	29	21.90	-1.9
CDVM	4.20	146	ePd	28	36.13	-2.1	VTHM	5.07	35	iPd	28	48.25	-2.2	WNMM	7.44	133	ePc	29	22.05	-1.9
JBMM	4.23	152	iPd	28	35.06	-3.7	BCGM	5.07	148	ePd	28	47.63	-2.9	WJPM	7.46	137	ePc	29	21.66	-2.6
SJH	4.24	151	ePd	28	35.90	-2.9	VTDM	5.07	27	iPd	28	48.34	-2.2	RCWM	7.51	131	ePc	29	24.23	-0.7
CVR	4.25	148	iPd	28	36.30	-2.6	BPCM	5.09	152	ePd	28	46.42	-4.4	WBSM	7.54	135	ePc	29	24.80	-0.7
			eS	29	28.67		BLRM	5.14	148	ePd	28	48.26	-3.2	WSCM	7.55	133	ePc	29	24.60	-0.9
LT3	4.26	153	ePd	28	35.09	-3.9	EKH	5.18	147	ePd	28	49.08	-3.0	MCW	7.70	9	ePn	29	24.30	-3.2
MRFM	4.26	130	ePc	28	37.37	-1.8	BSCM	5.18	148	ePd	28	48.76	-3.4	WCXM	7.71	132	ePc	29	26.37	-1.3
PSD	4.27	155	ePd	28	35.75	-3.5				iS	29	51.40		NEW	8.95	34	eP	29	42.00	-2.9
SEC	4.27	152	ePd	28	35.60	-3.6	BRMM	5.19	144	iPd	28	50.32	-1.9	DUG	9.04	92	eP	29	43.50	-2.8
VHHM	4.29	13	ePd	28	36.50	-2.9	JHC	5.20	150	iPd	28	48.23	-4.1	LAC	9.33	133	ePc	29	49.50	-0.8
CMLM	4.29	146	iPd	28	37.37	-2.2	EMT	5.21	147	ePd	28	49.57	-3.0	MSO	9.61	50	iPc	29	51.80	-2.4
VRBM	4.30	34	iPd	28	37.44	-2.2	VGB	5.25	31	iPd	28	51.06	-2.0		1.7s	1050.00nm				6.9mb
JSMM	4.32	153	ePd	28	36.01	-3.9	BVL	5.25	148	ePd	28	49.92	-3.2	BEI	9.69	80	iPc	29	53.80	-1.5
MHR	4.35	148	iPd	28	37.62	-2.7	BHSM	5.31	152	ePd	28	49.56	-4.4	PHC	9.81	350	iPd	30	57.50	60.8
CMMM	4.37	145	iPd	28	38.78	-2.0	LLA	5.32	146	iPnd	28	51.20	-2.9		0.5s	926.00nm				
COSM	4.38	144	iPd	28	38.63	-2.2	BPIM	5.33	148	ePd	28	50.39	-3.9	LDM	9.90	39	iP	29	55.60	-2.5
LXR	4.40	151	ePd	28	37.21	-3.8	BPFM	5.35	154	ePd	28	49.77	-4.7	MSU	9.93	101	iPc	29	57.10	-1.6
JBLM	4.40	153	ePd	28	37.15	-3.9	BMSM	5.35	145	ePd	28	52.29	-2.2	BCM	10.01	58	ePc	29	56.80	-2.9
			eS	29	28.40		SBT	5.35	147	iPd	28	51.57	-3.0	YKM	10.02	36	iPc	29	56.80	-2.9
MCUM	4.40	134	ePc	28	38.30	-2.7	SHW	5.39	18	eP	28	52.30	-2.9	KNB	10.05	110	eP	29	58.50	-1.8

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BUT	10.05	57	ePc	29	58.50	-1.8	JSC	34.72	87	eP	34	20.40	-4.3				iS	46	35.00				
RXF	10.29	38	iP	30	00.00	-3.4	HBF	35.96	89	eP	34	31.50	-3.7	NEM	63.27	305	P	38	06.00	2.6			
IMW	10.50	70	iPc	30	05.70	-0.9	ADK	36.68	305	eP	34	40.00	-1.1	GUV	63.56	103	eP	38	06.20	0.5			
GCA	10.95	108	ePc	30	11.90	-0.6	PNY	37.07	67	iPc	34	41.80	-2.6	KMU	65.48	305	eP	38	17.80	0.0			
GLA	11.21	133	ePc	30	13.50	-2.5	GPD	37.41	73	eP	34	45.00	-2.4	URA	65.64	305	P	38	27.00	8.2			
			e	30	16.80		DVT	38.00	66	eP	34	50.40	-1.9	SAP	66.02	307	P	38	28.00	6.8			
BDW	11.36	76	iPc	30	16.20	-2.0	MD4	38.67	72	eP	34	56.10	-1.8	TRO	66.40	13	iP	38	22.20	-1.1			
TUC	14.14	124	iPc	30	54.90	-0.3	MD2	38.72	72	eP	34	56.90	-1.4	NRI	67.21	348	Pd	38	26.80	-1.7			
LD3	14.19	61	iPc	30	51.20	-4.6	BNH	38.72	66	eP	34	56.50	-1.9	KEV	67.53	10	iP	38	28.20	-2.3			
GOL	14.75	89	iPc	31	00.70	-2.7	ILT	39.29	331	Pd	35	03.60	0.9		1.3s	*******	nm			7.9mb	X		
GLD	14.86	89	eP	31	01.10	-3.6				isP	35	06.70					i	38	35.50				
MSA	15.09	100	iPc	31	07.30	-0.6				ipP	35	09.00	18kmX				ePP	41	48.00				
SVM	15.46	117	iP	31	12.90	0.3	SCH	39.95	50	iPd	35	06.70	-1.7				eS	47	28.00				
ANMO	15.58	107	eP	31	12.20	-1.9	MIM	40.09	65	eP	35	07.80	-1.8	KIR	68.24	14	Pd	38	33.00	-2.0			
ALQ	15.58	107	ePc	31	12.40	-1.7	CBM	40.31	62	eP	35	09.20	-2.3				iS	47	42.00				
SIT	17.41	340	ePd	31	37.10	0.2	BPM	40.42	66	eP	35	10.70	-1.6	MIZ	68.39	303	ePc	38	44.00	7.6			
LUB	19.57	105	eP	31	58.00	-5.6	PQG	41.23	65	eP	35	17.60	-1.4				S	47	43.00				
HON	20.43	339	eP	32	12.10	-0.3	EMM	41.28	65	eP	35	18.60	-0.8	LM2	68.75	129	eP	38	38.60	-0.1			
CMTX	20.59	105	eP	32	09.60	-4.8	SMY	42.20	307	e(P)	35	29.00	2.2	NNA	68.79	129	P+	38	36.50	-2.6			
YKA	22.26	12	P	32	31.60	0.6		Z 20s		145.00um			6.9Msz				eS	46	40.00				
JCT	22.69	110	iP	32	31.90	-3.6	GDH	45.66	28	iPd	35	54.30	-0.3	SOD	69.68	11	P	38	41.70	-2.1			
SIO	22.78	94	iPc	32	31.50	-4.8		1.2s		937.00nm			6.6mb	PT02	69.79	129	eP	38	44.10	-1.1			
RLO	23.59	92	iPc	32	40.10	-1.1				iS	42	30.00		BOD	69.88	331	eP	38	44.00	-1.1			
KDC	24.36	323	ePd	32	54.10	2.7	PET	51.19	311	eP	36	37.00	-0.7	AFI	69.94	229	eP	38	46.00	-0.1			
TOA	24.70	336	ePd	32	57.20	2.4				eS	43	58.00					PcS	42	42.00				
PMR	25.32	332	ePd	33	02.00	1.5	SEY	51.36	324	Pd	36	38.60	-0.3				PPP	43	00.00				
	Z 18s		600.00um			7.2Msz	GAL	52.75	110	iP	36	53.50	3.6				S	48	02.00				
TYS	26.21	84	eP	33	06.00	-3.1	MGD	52.95	321	ePd	36	51.00	0.1				SS	52	20.00				
FVM	26.47	85	iPc	33	06.90	-4.7				epP	36	52.00	3kmX				SSS	55	32.00				
	Z 18s		100.00um			6.4Msz				esP	36	56.00					e	59	00.00				
POW	26.50	90	eP	33	07.50	-4.3				eS	44	24.00		RAR	70.04	215	P	38	50.00	3.5			
DON	27.10	87	eP	33	12.40	-4.9	SKR	53.51	309	eP	36	56.00	0.9				S	48	01.00				
JHP	27.21	90	eP	33	20.60	2.3				eS	44	26.80					e	55	00.00				
WLA	27.21	91	eP	33	14.60	-3.7	DAG	53.88	16	iPd	36	55.50	-2.0	APA	70.41	9	Pd	38	47.50	-0.7			
COL	27.30	339	eP	33	19.00	0.1		1.5s		861.00nm			6.5mb				iS	47	57.00				
			e(S)	37	50.00		SJG	54.69	96	iP	37	02.30	-1.9	TSK	70.78	301	eP	38	52.80	1.7			
FBA	27.30	339	ePd	33	19.00	0.1				i	37	10.00		BER	70.91	24	iP	38	50.30	-1.1			
SDN	27.46	313	eP	33	24.00	3.7				iS	44	56.00		PT03	71.00	129	eP	38	51.30	-1.2			
LST	27.47	88	eP	33	17.00	-3.6	TIK	56.43	339	Pd	37	14.00	-2.1	DMU	71.36	34	eP	38	52.40	-1.8			
SVW	27.50	327	ePd	33	21.20	0.5				eS	45	03.00			1.3s		410.00nm			6.4mb			
ELC	27.59	86	eP	33	17.00	-4.8	TOV	57.35	107	iPc	37	22.70	-0.7	KYS	71.37	301	eP	39	02.50	7.9			
INK	27.68	353	iPc	33	21.30	-0.9		0.6s		58.80nm			5.8mb	DDR	71.50	302	eP	38	57.80	2.3			
	0.5s		298.00nm			6.3mb	SDV	57.36	108	iPd	37	23.30	-0.3	DCN	71.60	34	eP	38	53.40	-2.3			
GRT	27.79	88	eP	33	19.70	-3.9		0.9s		222.00nm			6.2mb		1.3s		920.00nm			6.7mb			
MPH	27.83	91	eP	33	20.60	-3.3	FUO	57.55	114	iP	37	23.00	-2.2	PT04	71.65	130	eP	38	56.10	-0.3			
MET	27.83	91	iPc	33	20.60	-3.4	KBS	57.58	9	iPd	37	23.60	-0.6	SRY	71.69	301	eP	38	59.00	2.5			
			S	38	14.00		BOG	57.93	115	iP	37	27.50	-0.3	UME	71.79	16	Pd	38	46.80	-9.8			
EBZ	28.26	91	eP	33	24.50	-3.4	BOCO	57.98	115	iPc	37	27.30	-0.9	MAT	71.80	303	iPd-	38	56.20	-1.0			
TTA	28.67	330	e(P)	33	30.10	-1.2	KHE	58.54	359	Pd	37	29.00	-1.9		1.1s		122.00nm			5.9mb			
ACM	28.76	74	eP	33	29.50	-2.8				eS	45	32.00					eS	48	06.00				
IMA	29.85	337	ePd	33	42.00	0.0	OAQ	58.58	122	iPc+	37	32.00	-0.4	OYM	71.82	301	eP	38	59.50	2.1			
AN11	30.06	78	ePc	33	39.80	-4.2	NCE	58.92	123	iP	37	35.80	0.8	EKA	71.84	31	P	38	56.00	-1.0			
AN10	30.24	78	eP	33	41.90	-3.7	CAR	58.96	104	iPc	37	33.00	-1.7		1.3s		188.00nm			6.0mb			
IIC	30.32	127	eP	33	46.00	-0.8		0.5s		76.10nm			6.1mb	DLE	71.95	34	eP	38	55.10	-2.6			
AN12	30.34	77	ePc	33	42.30	-4.1	REY	58.98	30	iP	37	33.10	-1.0		1.3s		430.00nm			6.4mb			
AAM	30.42	74	ePc	33	43.70	-3.4	AKU	59.54	27	iPd	37	37.00	-1.0	DDK	71.97	34	eP	38	55.10	-2.7			
UTO	30.62	75	iPd	33	46.50	-2.3		1.4s		1550.00nm			6.9mb		1.5s		520.00nm			6.4mb			
TAC	30.63	127	eP	33	45.00	-4.5	TPT	59.71	206	iP	37	40.50	0.9	NB2	72.07	21	P	38	57.40	-1.0			
			eS	38	58.50			1.2s		35.00nm			5.4mb		1.3s		632.00nm			6.5mb			
IIM	30.70	127	iP	33	51.00	0.9				ipP	37	44.90	14kmX	PDA	72.21	55	P	39	03.00	3.5			
AN3	30.71	77	ePc	33	45.80	-3.9	PMO	59.82	206	iP	37	41.20	0.8	KON	72.77	22	iP	39	01.60	-0.9			
IIP	30.84	127	eP	33	51.00	-0.4		1.2s		35.00nm			5.4mb	KONO	72.77	22	eP	39	01.50	-1.0			
III	31.26	129	iP	33	53.60	-1.4				ipP	37	45.70	15kmX	KJF	72.80	12	Pd	39	01.60	-1.0			
BETH	31.33	82	eP	33	50.70	-4.4	RUV	59.83	206	iP	37	41.40	1.0				i	39	08.00				
IIT	31.46	126	eP	33	56.60	-0.2		1.2s		110.00nm			5.9mb				ePP	41	48.00				
ORT	31.79	86	eP	33	55.70	-3.5				ipP	37	45.80	14kmX				eS	48	28.00				
NKI	31.89	307	eP	34	01.00	1.1	VAH	59.95	206	iP	37	42.00	0.7	ECP	72.82	35	eP	38	56.30	-6.6			
CLE	32.15	75	iPd	33	59.50	-2.8		1.2s		80.00nm			5.7mb		1.7s		390.00nm			6.2mb			
			S	39	16.00					ipP	37	46.50	15kmX				eS	48	28.00				
TKL	32.28	86	eP	33	59.10	-4.4	AMN	60.54	198	iP	37	50.00	4.8	HFS	73.49	20	iP	39	05.10	-1.6			
ANM	33.08	329	eP	34	10.40	0.2		1.3s		345.00nm			6.3mb		1.3s		565.00nm			6.5mb			
HIL	33.54	240	P	34	14.00	-0.6	OTP	60.84	198	iP	37	50.80	3.5		Z 19s		473.00um			7.8Msz			
HKL	33.60	242	P	34	19.00	3.9		1.3s		315.00nm			6.3mb	SUF	73.92	14	iP	39	08.20	-0.9			
MKH	33.71	240	P	34	17.00	0.9	KUR	60.88	306	eP	37	49.00	1.6	ABU	74.52	303	ePd	39	16.00	2.9			
MRG	33.80	77	iPd	34	14.90	-1.8	YAK	61.24	329	iPd	37	49.00	-0.6	CN2	74.62	315	Pd	39	12.80	-0.7			
			eS	39	41.00			2.0s		1620.00nm			6.8mb				PP	42	02.50				
HVO	33.89	240	iP	34	22.00	4.2	PPN	62.69	207	iP	38	00.10	0.3				iS	48	51.00				
			iS	39	04.00			1.2s		80.00nm			5.8mb	OSK	74.62	303	P	39	21.00	7.2			
PRM	33.97	88	eP	34	14.00	-4.2	PPT	62.78	207	iP	38	00.80	0.5	UPP	74.72	19	Pd	39	12.40	-1.4			
MOK	34.11	245	P	34	23.00	3.5		1.2s		110.00nm			5.9mb				i	39	17.80				
KKH	34.18	241	P	34	22.00	1.8	AFR	62.82	207	iP	38	00.90	0.3				iPP	42	08.00				
BLA	34.24	82	iPc+	34	17.60	-3.0		1.2s		110.00nm			5.9mb				iS	48	48.00				
	1.2s		988.00nm			6.6mb	PAE	62.86	207	iP	38	01.20	0.3	ARE	75.49	128	Pc	39	18.50	-0.7			
			eS	39	42.80			1.2s		75.00nm			5.7mb				iS	48	56.00				
DHN	34.25	71	eP	34	13.50	-7.1	TVO	62.87	206	iP	38	01.40	0.4	NUR	75.68	15	Pd-	39	18.30	-1.0			
KIP	34.32	245	eP	34	25.00	3.7		1.2s		85.00nm			5.8mb				i	39	36.50				
HON	34.38	245	P	34	24.00	2.1	YSS	63.02	310	Pc	38	02.00	0.2				ePP	42	16.00				

TABLE 4-26

08d 10h

			eS	49 00.00	
SHK	76.56	304	eP	39 25.20	0.5
COP	76.93	23	iPd	39 26.00	-0.4
	1.0s	300.00nm			6.3mb
			i	41 55.00	
			iPP	42 24.00	
			iPPP	44 15.00	
			iS	49 15.00	
ZOBO	77.39	125	P	39 27.50	-2.7
PUL	77.40	13	Pd	39 29.00	0.1
WIT	77.44	28	iPd	39 30.10	0.9
			e	39 37.00	
			ePP	42 23.00	
DBN	77.48	29	iPd	39 30.00	0.5
	Z 20s	141.00um			7.3Msz
			i	39 48.00	
			i	42 01.00	
			iPP	42 28.00	
			iS	49 24.00	
LPB	77.61	125	Pc	39 30.80	-0.4
	0.9s	75.60nm			5.8mb
			i	39 44.00	
			SKS	49 24.00	
IRK	77.79	332	ePc	39 29.00	-2.2
			eS	49 26.00	
FLN	77.88	34	iPd	39 31.20	-0.5
	1.1s	99.40nm			5.8mb
GRR	78.00	34	iPd	39 32.10	-0.3
WTS	78.16	28	iPd	39 33.00	-0.2
			e	39 37.50	
			i	42 28.70	
SSC	78.17	34	iPd	39 32.60	-0.8
	1.3s	142.00nm			5.9mb
LPF	78.20	35	iPd	39 33.00	-0.5
UCC	78.22	30	Pd	39 32.80	-0.8
			PcP	39 42.80	
			e	42 28.00	
			sPP	42 53.00	
			S	49 30.00	
			SKS	49 49.00	
			SS	54 30.00	
STS	78.49	42	eP	39 34.50	-0.7
FKK	78.62	305	P	39 40.00	3.9
HEE	78.76	29	iPd	39 36.60	0.1
			i	39 43.80	
			ePP	42 33.00	
DOU	78.88	31	Pd-	39 36.90	-0.3
			S	49 38.00	
MEM	79.00	30	P	39 38.30	0.5
BNS	79.14	29	iPd	39 38.20	-0.4
MOY	79.44	333	Pd	39 41.00	0.8
MFF	79.69	35	iPd	39 41.20	-0.5
	1.1s	75.10nm			5.6mb
ZAK	79.71	331	Pd	39 42.20	0.6
			eS	49 52.60	
PTO	79.72	44	Pd	39 41.00	-0.9
			iS	49 44.00	
			SS	55 02.00	
			SSS	58 26.00	
WLF	79.82	30	ePd	39 43.00	0.7
			e	40 03.00	
			PP	42 49.00	
			SKS	49 52.00	
			e	54 45.00	
			SS	55 03.00	
BRN	79.96	25	ePd	39 43.00	0.0
TNS	80.21	28	iPd	39 44.60	0.1
			ePP	42 45.10	
			eS	49 50.00	
COI	80.49	44	P	39 46.00	-0.1
TPL	80.63	130	P	39 47.00	0.1
MTE	80.81	44	P	39 46.00	-1.9
CLL	80.85	25	iPd	39 47.10	-0.6
			i	39 54.00	
			i	40 03.00	
			e	40 16.00	
			PP	43 08.00	
			S	49 57.00	
			P'P'	06 35.00	
LOP	80.86	33	iPd	39 47.30	-0.6
SSF	80.88	33	iPd	39 47.40	-0.6
GWF	80.94	30	P	39 48.00	-0.3
TCF	80.95	34	iPd	39 47.50	-0.9
	1.4s	288.00nm			6.1mb
MOX	80.96	26	iPd-	39 48.00	-0.4
	1.6s	605.00nm			6.4mb
	Z 15s	248.00um			7.7MszX
	N 16s	215.00um			
AVF	81.03	33	iPd	39 47.80	-1.0
LBF	81.13	33	iPd	39 48.50	-0.9
MZF	81.16	34	iPd	39 48.60	-0.9
LIS	81.18	46	P	39 49.70	0.0
			iPcP	39 57.80	
			S	50 00.00	
			LR	02 12.00	
HAU	81.25	31	iPd	39 49.40	-0.6
	1.1s	94.90nm			5.7mb
CDF	81.27	30	iPd	39 49.70	-0.4
HOF	81.33	27	iPd	39 49.90	-0.4
	1.5s	477.00nm			6.3mb
SMF	81.35	33	iPd	39 49.60	-0.9
LFF	81.37	36	iPd	39 50.10	-0.5
ECH	81.39	30	P-	39 50.00	-0.7
			ePP	42 52.00	
			eS	50 00.00	
			eSS	55 20.00	
RJF	81.43	35	iPd	39 50.00	-0.9
NVS	81.45	344	Pd	39 50.20	-0.6
			eS	50 01.90	
BRG	81.53	25	iPd	39 50.90	-0.4
			e	40 22.00	
			PP	43 08.00	
			(SKS)	50 12.00	
			SS	55 22.00	
			P'P'	06 24.00	
			e	19 00.00	
BSF	81.56	31	iPd	39 51.10	-0.6
PJG	81.57	281	eP	39 53.00	0.9
GUMO	81.57	281	eP	39 53.00	0.9
	1.5s	1510.00nm			6.8mb
GRFO	81.63	27	iPd	39 52.20	0.3
GRF	81.63	27	iPd	39 52.20	0.3
	1.6s	1340.00nm			6.8mb
	Z 14s	283.00um			7.8MszX
			iS	50 07.60	
BAF	81.64	31	P	39 51.50	-0.6
STU	81.69	29	iPd-	39 52.00	-0.2
	1.5s	306.00nm			6.1mb
	Z 20s	163.00um			7.4Msz
PYM	81.71	34	P	39 51.80	-0.7
UER	81.75	337	Pd	39 52.00	-0.4
			iS	50 06.00	
ANT	81.76	131	iP	39 53.60	0.8
LPO	81.77	36	iPd	39 51.90	-0.8
	1.3s	91.30nm			5.7mb
LGR	81.79	39	iPd	39 53.60	0.7
			iPcP	39 59.60	
			iS	50 06.60	
CAF	81.96	35	iPd	39 52.70	-1.0
BJI	82.15	317	ePd-	39 54.00	-0.7
	2.3s	177.00nm			5.8mb
KSP	82.29	24	iPd	39 55.00	-0.3
BUB	82.32	30	Pd	39 54.80	-0.8
ELT	82.32	342	Pd	39 54.10	-1.3
			eS	50 11.00	
GUD	82.36	41	iP	39 56.00	0.0
SVE	82.37	357	ePd	39 54.00	-1.5
MOS	82.37	10	Pd	39 55.00	-0.6
			isP	40 00.00	
PRA	82.38	25	iPd	39 55.10	-0.7
			(SKS)	50 16.00	
WAR	82.39	20	eP	39 50.00	-5.7
			e	43 11.00	
			e	50 16.00	
ZUL	82.46	30	Pd	39 55.50	-0.8
PRU	82.49	25	iPd	39 56.50	0.2
			i	42 22.00	
			PP	43 07.00	
			(SKS)	50 15.00	
			i	00 11.00	
WET	82.67	27	iPd	39 56.50	-0.8
	1.8s	455.00nm			6.3mb
EPF	82.68	37	iPd	39 56.80	-0.7
	1.3s	131.00nm			5.9mb
SSB	82.74	33	ePd	39 57.10	-0.7
OBN	82.79	11	Pd	39 58.00	0.3
			iS	50 16.00	
ARU	82.84	358	eP	39 55.00	-3.0
			esP	40 01.20	
			eS	50 17.00	
KHC	82.91	26	iPd	39 58.60	0.0
	1.5s	338.00nm			6.3mb
	Z 20s	101.00um			7.2Msz
	N 18s	97.99um			
	E 22s	127.00um			
			e	40 04.00	
			e	40 15.50	
			e	40 48.40	
			e	43 04.20	
			S	50 20.00	
FUR	82.95	28	iPd	39 59.20	0.4
	1.5s	581.00nm			6.5mb
			eS	49 29.00	
TOL	82.99	42	iPd	39 59.00	-0.1
	1.2s	15.00nm			5.0mb X
			i	40 18.00	
			iS	50 20.00	
MLS	83.08	37	e(P)d	39 57.80	-1.7
DIX	83.25	31	P	40 00.00	-0.7
ORO	83.85	31	P-	40 03.80	0.3
BHG	83.89	27	iPd	40 03.50	-0.1
KMR	84.03	26	iPd	40 04.00	-0.3
KRA	84.06	22	iPd	40 04.50	0.1
			iPcP	40 09.20	
			ePP	43 40.00	
			iS	50 29.00	
PNI	84.16	32	P	40 05.00	-0.1
TEN	84.24	57	Pd	40 06.90	1.3
			PP	43 23.40	
			S	50 44.40	
			SS	54 49.40	
MOA	84.25	26	iPd	40 05.20	-0.2
			i	40 12.00	
			e	41 08.00	
			e	04 10.00	
			P'P'	06 26.00	
			i	24 50.00	
SFS	84.42	45	iPd	40 05.00	-1.4
			i	40 40.00	
			iPP	44 42.00	
			iPPP	46 48.00	
			iS	50 34.00	
			iSP	51 33.00	
EBR	84.48	39	iP	40 06.70	0.1
			eS	50 33.70	
TIA	84.50	314	Pd	40 07.50	0.7
			PP	43 27.00	
			S	50 31.00	
VKA	84.56	25	iPd	40 07.00	0.0
			i	40 14.00	
			i	43 23.00	
			PP	43 28.00	
			(SKS)	50 28.00	
VIE	84.59	25	Pd	40 08.00	0.9
			e	21 00.00	
STV	84.73	32	P	40 07.20	-0.7
NIE	84.74	22	iPd	40 08.50	0.6
			i	40 25.50	
BTO	84.75	321	Pd	40 09.00	0.8
SAL	84.84	30	iPd	40 08.70	0.4
	1.0s	0.82nm			3.9mb X
			e(PP)	43 34.50	
VG1	84.86	31	P-	40 09.50	1.1
CTI	84.88	29	iPd	40 08.50	-0.2
	1.3s	0.59nm			3.7mb X
			ePP	43 23.00	
ROB	84.90	32	P	40 07.00	-1.8
LRG	84.98	33	iP	40 09.00	-0.1
PCN	84.98	31	P	40 11.00	2.0
LMR	85.14	33	iPd	40 09.60	-0.3
SOP	85.15	25	Pd	40 09.70	-0.2
			ipP	40 16.00	20kmX
			i	41 00.00	
			ePP	43 24.00	
MAL	85.18	44	iPd	40 11.00	0.8
	1.1s	26.50nm			5.4mb
			i	40 29.00	
			iS	50 37.00	
GEN	85.22	31	P	40 10.20	-0.1
CRT	85.25	43	iP	40 11.70	1.0
			i	41 14.20	
			i	42 17.00	
			i	43 34.10	
			e	46 35.50	
			i	50 48.00	
PVC	85.26	242	Pc	40 15.00	4.3
HNR	85.34	253	eP	40 16.00	4.8
LVV	85.38	20	Pd	40 11.00	0.0
			iS	50 40.00	
SLA	85.40	128	Pd	40 11.50	-0.1
SRO	85.59	24	eP	40 14.00	1.9

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			(SKS)	50	30.00						eS	51	24.00				E 22s	42.60um					
			ScS	50	47.00			SSR	89.28	23	eP	40	29.00	-1.1		ISK	94.82	20	P	40	53.00	-2.6
JOS	85.64	22	Pd	40	12.50	0.2		SAN	89.29	137	P	40	30.50	0.5		IST	94.82	20	P-	40	54.60	-1.0
			iPcP	40	18.00						epP	40	36.00	17kmX					S	51	32.00	
			i	40	46.00						ePP	44	15.00			GNZ	95.03	221	eP	41	05.00	8.7
			i	42	13.00						eSKS	50	55.00			JAY	95.15	271	eP	41	01.00	3.4
LJU	85.91	27	iPd	40	13.20	-0.5					eS	51	15.00			EDC	95.18	21	P	40	57.10	-0.2
	1.5s	1610.00nm				7.0mb					eSPP	53	10.00			HRT	95.20	19	P	40	56.50	-1.0
			i	40	18.50						eSSS	00	47.00			EZN	95.24	22	P	40	56.20	-1.4
			e	42	17.00						e	03	52.00			GRO	95.49	7	Pc	41	06.00	7.3
			ePP	43	31.50						e	08	14.00			KAS	95.62	16	P	40	59.30	-0.2
			eS	50	38.00			LNV	89.31	138	eP	40	30.00	0.0		CDU	95.63	319	Pd	40	59.00	-0.6
SSE	85.93	308	Pd	40	14.30	0.3		DUI	89.69	29	iPd	40	31.50	-0.5		BKT	95.71	20	P	40	58.00	-2.0
	1.8s	1440.00nm				6.9mb			1.5s		0.13nm			3.0mb X		NRN	95.76	345	iPd	41	00.00	-0.4
Z	17s	84.40um				7.2MszX		NOU	89.72	240	Pd	40	34.50	2.3			8.0s	6360.00nm				7.1mb X
N	17s	55.80um						VRI	89.72	20	eP	40	31.00	-1.1		GPA	95.86	19	P	40	59.70	-0.8
E	18s	41.30um									ePP	43	01.00			MAK	95.97	6	eP	40	58.00	-2.9
			sP	40	26.70			MOM	89.78	267	eP	40	34.00	1.2		SZP	96.17	299	eP	41	05.20	3.0
			PP	43	31.00			CMP	89.84	21	ePd	40	31.00	-1.7		ATH	96.17	25	eP	41	01.00	-0.9
			S	50	49.00			MLR	89.88	20	eP	40	32.00	-1.0					ePP	45	12.00	
TRI	85.93	28	iPd	40	13.30	-0.5					ePP	43	35.00						eSKS	51	44.00	
			iPP	43	39.00						eS	50	59.00						eS	52	32.00	
			ePPP	45	27.00			KOU	89.93	242	Pc	40	34.70	1.5		KVT	96.36	15	P	41	02.50	-0.3
			i	49	44.00			ANP	89.99	304	Pc	40	43.00	9.2		HKC	96.63	307	P	41	16.00	11.8
			iS	50	39.10						S	51	20.00						S	52	00.00	
ALI	85.93	41	iPc	40	14.50	0.6		WHN	90.28	312	Pd	40	35.50	0.6		BAA	96.77	131	P	41	12.00	7.7
			eS	50	43.50						iS	51	21.00						PP	45	05.30	
UZH	86.01	21	Pd	40	15.00	0.9		BAO	90.41	110	eP	40	35.50	-0.2					S	52	26.90	
			isP	40	21.00			XAN	90.46	318	Pd	40	36.50	0.7					PPS	54	27.70	
			iS	50	43.00			WMO	90.61	337	Pd	40	37.20	0.9					LQ	08	27.70	
BUD	86.10	24	Pd	40	15.00	0.4					PP	44	14.50						LR	14	37.70	
			ePcP	40	20.00			HWA	90.80	303	P	40	35.30	-2.1		IZM	96.83	22	P	41	03.40	-1.6
			e	42	31.00						eS	51	20.00			ANTO	96.85	17	iPd	41	05.00	-0.1
			ePP	43	32.00			TCA	90.91	132	Pd	40	36.80	-0.9		BKR	96.87	9	Pd	41	04.60	-0.6
ALM	86.10	43	ePd	40	14.30	-0.5		SOB4	90.96	101	P	40	37.10	-1.1					iS	52	32.40	
	2.2s	4.20nm				4.2mb X					e	40	44.50			CNP	96.89	293	eP	41	14.00	8.6
			eS	44	28.80						e	40	51.50			BAG	96.91	299	P	41	08.00	2.3
SEM	86.31	344	Pd	40	15.10	-0.5		SOB	91.16	101	P	40	38.70	-0.4					e	44	19.00	
PRT	86.52	30	P-	40	16.50	-0.2					e	40	44.30			ALT	96.98	20	P-	41	04.50	-1.2
			ipP	40	45.00	109kmX					e	40	52.50			TAS	97.00	349	Pd	41	10.50	4.9
			i	42	34.00			TLB	91.25	19	eP	40	37.00	-2.1		LGP	97.08	294	eP	41	16.00	9.7
			iS	50	42.00			LZH	91.25	323	Pd	40	40.40	0.8		ANR	97.09	347	ePc	41	02.00	-4.1
NJ2	86.60	310	Pd	40	17.00	-0.3		BRT	91.37	28	P-	40	39.00	-0.7		LPA	97.32	130	ePc	41	12.00	5.2
			PP	43	43.00			SOB3	91.40	102	P	40	40.00	-0.2			Z 20s	95.00um				7.3Msz
			iS	50	52.00						e	40	46.40						eSKS	51	44.00	
ZAG	86.60	26	ePd	40	17.50	0.4					e	40	56.30			KSH	97.66	344	P	41	09.00	0.2
			iS	51	06.10			SOF	91.74	23	P	40	41.00	-0.5					PP	45	04.00	
TLL	86.62	136	P	40	18.20	0.6		SKO	91.81	25	iPd	40	41.00	-0.8		GYA	97.67	315	P	41	09.00	0.0
FIR	86.67	30	P-	40	18.00	0.6					ipP	41	00.00	68kmX		MAN	97.83	297	eP	41	20.50	10.9
			i	40	27.00						iPP	44	25.50			KDS	98.05	66	iP	41	09.90	-0.8
			iS	51	06.00						i	44	51.00						e	45	11.40	
CVF	86.75	32	iPd	40	17.10	-0.8					e(SKS)	51	18.00						i	03	27.30	
	1.2s	118.00nm				6.0mb					iS	51	44.00			KRV	98.23	7	Pd	41	10.00	-1.2
BMR	87.21	21	eP	40	20.00	-0.1					iPS	52	58.00			YER	98.30	22	P	41	09.70	-1.9
RAB	87.60	262	ePc	40	22.00	-0.4					iSS	58	11.00			SHE	98.43	5	eP	41	05.00	-7.0
N	17s	56.50um						ORI	91.83	29	P-	40	42.00	0.1		ERE	98.51	8	Pd	41	13.00	0.5
BLY	87.94	26	iP	40	23.60	0.0		PVL	91.84	22	P	40	41.00	-0.9		RDJ	98.58	113	Pc	41	12.00	-0.7
CLU	88.10	21	eP	40	20.00	-4.3		TIR	91.86	26	Pc	40	40.60	-1.4		BCK	98.61	20	P	41	11.50	-1.5
CJR	88.12	21	eP	40	20.80	-3.7		QZH	91.97	306	P	40	44.60	1.8		WEL	98.66	222	eP	41	19.00	6.3
TIM	88.33	23	eP	40	23.00	-2.5		LCI	92.12	28	P	40	43.00	-0.2					PP	45	14.00	
ALP	88.39	29	P+	40	31.20	5.4		ESA	92.24	259	Pd	40	49.20	5.2					PPP	46	38.00	
MNS	88.39	30	iPd	40	24.50	-1.3		SIM	92.25	15	eP	40	44.00	0.2					PS	54	22.00	
	0.9s	0.08nm				3.0mb X					esP	40	50.00						SS	59	10.00	
			e(PP)	43	51.50			OHR	92.38	25	iP	40	43.80	-0.7		BAK	98.76	4	Pc	41	20.00	6.5
DEV	88.69	22	P	40	27.00	-0.2					i	44	19.10			SAM	98.92	351	Pd	41	14.50	0.1
AQU	88.70	30	iPd	40	27.20	-0.2		GIB	92.71	32	P	40	45.00	-1.1		SYT	99.08	19	P	41	14.00	-1.3
	1.0s	0.11nm				3.1mb X		VAY	92.75	24	iP	40	45.20	-0.9		GAR	99.13	348	eP	41	15.00	-0.4
			i(PP)	43	53.80			DIM	92.97	22	eP	40	47.00	-0.1		GRS	99.37	7	P	41	15.20	-1.4
ROM	88.75	31	P	40	18.00	-9.5		RCI	93.23	30	P	41	03.20	14.8		DSH	99.79	349	Pd	41	18.10	-0.3
			S	51	06.00						e	49	10.20			DAV	100.00	289	Pdiff	41	27.00	7.5
CEN	88.82	135	eP	40	29.00	1.1					e	52	18.20			KAT	100.09	359	ePdiff	41	10.00	-9.4
MDB	88.86	21	eP	40	28.00	0.0					e	05	20.20			KUL	100.30	348	Pdiffd	41	20.70	0.3
RMP	88.90	30	iPd	40	28.00	-0.3		KDZ	93.28	22	P	40	49.00	0.4		KHO	100.42	347	ePdiff	41	13.00	-8.2
	1.1s	2.00nm				4.3mb X		MBO	93.49	68	eP	40	56.40	6.6		TAB	100.79	7	ePdiff	41	22.00	-0.8
			iPP	43	54.00						i	41	12.10			KMI	100.81	317	Pdiff	41	23.00	-0.2
			iS	51	20.00						e	41	42.30			ASH	101.29	358	ePdiff	41	24.00	-0.8
			iPS	52	28.00						i	44	36.40						eS	53	00.60	
BEO	88.93	24	P	40	28.50	0.2					i	44	39.90			LSA	102.17	329	Pdiff	41	30.80	1.3
			iPP	44	08.00						i	45	24.00			CTA	102.26	254	Pdiff	41	31.00	1.5
			iS	51	07.00			TLG	93.71	344	P	40	50.80	0.2					iPP	45	48.00	
GZR	89.10	22	eP	40	28.00	-1.3		PRZ	94.24	343	eP	40	53.00	-0.2					iSKS	52	08.00	
CFA	89.12	135	Pd	40	29.30	0.0		SOC	94.54	11	Pd	40	54.50	0.2		MAIO	102.89	357	Pdiff	41	30.80	-1.3
			S	51	08.80			PYA	94.54	9	Pc	40	54.60	0.2					i	45	17.70	
			SS	57	00.00			CTT	94.58	20	P	40	53.40	-1.2		PPR	102.91	295	ePdiff	41	42.40	9.9
			pP	40	00.00			FRU	94.67	346	ePd	40	55.00	0.0		KBL	103.70	348	ePdiff	41	35.50	-0.4
KIS	89.17	18	Pd	40	28.00	-1.4					iS	52	02.00			SHL	105.52	326	Pdiff	41	43.00	-1.1
			isP	40	33.00			PMG	94.76	262	eP	40	58.00	2.4					SKS	52	26.00	

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DDI	105.91	340	Pdiff	41 48.60	3.0
HLW	105.99	22	ePdiff	41 46.00	0.1
			eS	45 28.00	
EIL	107.22	19	Pdiff	41 56.50	5.1
NHA	107.36	304	Pdiff	42 05.00	12.8
ISO	107.56	258	ePdiff	42 03.00	9.9
			e	45 31.00	
KIC	107.61	65	ePdiff	41 51.90	-1.5
			e	46 02.80	
NDI	107.69	340	Pdiff	42 08.00	14.5
			ePP	45 28.00	
			ePPP	48 36.00	
			eSS	05 44.00	
			eSSS	11 20.00	
CHG	107.98	317	ePdiff	42 07.00	12.0
			eS	52 45.00	
MTN	109.02	269	ePdiff	42 06.00	6.4
KUK	110.68	61	PKP	46 03.00	-4.5
WB2	110.96	261	Pdiff	42 15.00	6.8
			e	45 54.00	
WB2	110.96	261	PKP	46 06.20	-1.7
			I	46 15.00	
			e	46 49.70	
			e	49 17.10	
WRA	110.97	261	Pdiff	42 17.00	8.7
	1.0s		2.40nm		
WRA	110.97	261	PKPc	46 14.40	6.5
	0.7s		3.40nm		
MKS	112.82	284	e(PKP)	46 18.00	6.4
KUPT	112.98	277	e(PKP)	46 26.00	14.2
TOO	113.34	240	ePKP	46 07.00	-5.0
ASP	113.53	259	ePKP	46 19.00	6.2
TAU	115.16	234	ePdiff	42 30.00	3.7
			e	47 20.00	
			e	55 12.00	
			e	55 32.00	
			e	02 32.00	
			e	07 00.00	
			e	10 40.00	
ADE	116.45	246	PKP	46 24.00	5.9
SNG	116.53	308	ePdiff	42 44.00	10.9
			e	47 28.00	
			eS	53 16.00	
HYB	117.94	335	ePdiff	42 49.00	9.6
HYB	117.94	335	ePKP	46 19.00	-2.3
			eSKS	55 28.00	
POO	118.25	340	ePdiff	42 52.50	11.8
WBN	120.37	261	ePKP	46 24.00	-1.7
BSI	120.96	312	ePKP	46 40.50	13.4
PSI	121.10	306	iPKPc	46 25.20	-2.2
	1.0s		27.60nm		
MDR	121.49	331	PKP	46 35.00	6.9
GBA	121.87	335	PKPd	46 25.20	-3.6
LEM	122.46	291	e(PKP)	46 18.50	-11.7
			e(S)	54 02.00	
PPI	122.64	303	ePKP	46 27.00	-3.3
BCAO	123.58	46	ePKP	46 30.00	-2.2
BNG	123.58	46	ePKP	46 48.50	16.3
KOD	125.01	333	ePKP	46 35.00	-0.3
			ePP	48 20.00	
			SKS	53 40.00	
			SKKS	54 16.00	
			SKKKS	55 21.00	
			PS	58 08.00	
			SS	05 32.00	
			SSS	09 52.00	
SBA	125.55	194	iPKP	46 33.30	-0.9
			PP	48 37.00	
			PKS	50 00.00	
			PS	58 33.00	
			e	02 34.00	
			SS	05 34.00	
			LQ	20 00.00	
			LR	25 00.00	
ARO	126.39	15	ePKP	46 42.90	5.2
			i	48 30.70	
KLG	126.65	259	ePKP	46 43.00	5.3
AAE	127.84	21	ePKP	46 53.00	12.2
DRV	128.94	211	PKP	46 40.50	-0.4
NWAO	130.83	259	ePKP	46 42.00	-3.6
SPA	130.90	180	ePKPd	46 45.00	0.2
	0.9s		35.30nm		
	Z 20s		70.90um		7.4Msz
MUN	131.14	260	ePKP	46 54.00	7.8
	Z 22s		80.00um		7.4Msz
	N 22s		200.00um		
	E 22s		110.00um		

NAI	136.96	28	ePKP	46 56.00	-2.0
	1.5s		139.00nm		
SNA	138.84	154	e(PKP)	46 50.00	-9.5
WIN	142.98	72	iPKPd	47 03.00	-5.6
	0.9s		26.10nm		
	Z 17s		9.86um		6.6MszX
KRI	147.19	50	PKP-	47 15.00	-0.7
			ePˈPˈ	07 22.00	
MTD	148.27	47	PKPd	47 17.00	-0.3
			ePP	50 51.00	
			ePˈPˈ	07 22.00	
TET	148.82	44	iPKPd	47 20.00	1.9
			e	50 52.00	
BUL	149.13	56	iPKPd	47 18.30	-0.4
	1.1s		296.00nm		
	Z 22s		80.70um		7.5Msz
	N 21s		55.20um		
	E 22s		79.30um		
CLK	149.13	41	PKP-	47 19.00	0.3
			ePˈPˈ	07 26.00	
NPA	150.56	33	ePKP	47 22.00	1.2
			e	47 27.00	
			e	47 34.00	
			e	48 04.00	
CIR	151.60	52	PKP-	47 22.00	-0.3
			ePP	51 21.00	
PRE	152.80	64	iPKPc	47 25.20	1.2
	1.0s		44.00nm		
			i	47 46.50	
MAW	153.11	186	ePKP	47 23.00	0.1
GRM	155.87	81	iPKPd+	47 37.50	9.6
	1.2s		46.90nm		
	Z 22s		57.00um		7.4Msz
			i	51 48.00	
AVY	156.96	19	iPKPd	47 35.60	5.7
	828 obs. associated				
	NOV 23, 1980 18h 34m 53.28± 0.08s				
	40.884 N ± 1.4km 15.325 E ± 1.0km				
	DEPTH = 8.0km (15 depth phases)				
	6.1mb (54 obs.) 6.8Msz (19 obs.)				
	SOUTHERN ITALY (390)				
	Over 3000 people killed, about				
	1900 missing, 7750 injured,				
	250,000 homeless and extensive				
	damage.				
OVO	0.71	266	Pg	35 07.50	0.1
SGG	0.87	305	Pg	35 11.70	1.4
DUI	1.01	320	ePg	35 14.50	1.9
BAI	1.19	78	Pg	35 16.00	0.4
ORI	1.20	134	P*	35 14.50	-1.2
			iSg	35 33.00	
BRT	1.42	90	Pn+	35 17.00	-2.4
ACI	1.67	156	Pn	35 21.00	-2.0
AQU	2.06	316	Pn	35 30.60	2.0
RMP	2.18	296	Pn	35 30.50	0.1
LLI	2.45	187	Pn	35 33.50	-0.7
ACL	2.46	198	Pn	35 31.00	-3.4X
MNS	2.49	308	Pn	35 35.50	0.8
VPL	2.52	186	Pn	35 34.00	-1.1
MES	2.69	176	Pn	35 34.80	-2.8
OII	2.74	174	Pn	35 35.40	-2.9
NOV	2.86	183	Pn	35 38.00	-2.0
GIB	3.07	200	Pn-	35 42.20	-0.8
			e	36 18.70	
PRG	3.11	316	Pn	35 45.00	1.5
			iSn	36 33.00	
VLO	3.20	96	Pnd	35 45.40	0.6
			()	36 08.30	
TTG	3.33	61	ePn	35 45.00	-1.7
SDA	3.33	69	Pn	35 48.00	1.3
			()	36 28.80	
CAT	3.37	183	Pn	35 47.50	0.3
TIR	3.46	81	Pn	35 48.00	-0.5
			()	36 06.50	
PRO	3.52	330	Pn	35 50.30	1.1
PUK	3.62	70	Pnc	35 50.00	-0.8
SRN	3.71	104	Pn	35 53.70	1.6
			()	36 42.70	
			()	37 06.20	
SAR	3.77	37	iPn	35 54.00	1.0
KMA	3.94	68	Pnd	35 55.30	0.0
PHP	3.94	77	Pnc	35 54.70	-0.6
			()	36 37.20	
KKS	4.00	71	Pn	35 55.40	-0.8
OHR	4.15	85	iPn	35 57.50	-0.8

KBN	4.18	92	Pn	35 59.60	0.9
FIR	4.18	315	Pn-	36 02.50	3.8X
			iSn	36 47.20	
PRT	4.33	315	Pn	36 03.50	2.6
			iP*	36 12.00	
			iPg	36 18.30	
			iSn	36 54.50	
SKO	4.72	75	iPnc	36 06.00	-0.5
			iSn	37 02.60	
CGL	4.86	254	Pn	36 03.00	-5.6X
CEY	4.90	353	iPn	36 08.10	-0.8
ZAG	4.95	5	ePnc	36 08.60	-1.1
			eSn	37 04.30	
TRI	4.95	347	Pn	36 08.00	-1.7
			iPgPg	36 29.20	
			iSn	37 07.00	
CVF	5.12	291	Pn	36 10.50	-1.5
			Sn	37 08.50	
LJU	5.19	354	iPnc	36 12.10	-0.9
			i	36 15.30	
			i	36 38.90	
			eS	37 37.50	
BEO	5.45	42	Pn	36 16.60	-0.1
			iPg	36 41.60	
			iSn	37 26.00	
			iSg	38 01.00	
VAY	5.49	83	iPn	36 15.00	-2.3
MBZ	5.56	222	iPn	36 16.50	-1.8
SBS	5.58	226	iPn	36 18.00	-0.6
CTI	5.81	334	Pn+	36 20.80	-1.1
PCN	5.88	317	Pn+	36 25.00	2.3
			iSn	37 36.20	
SAL	5.88	325	Pn+	36 22.00	-0.7
GEN	5.89	309	Pn	36 25.60	2.7
			eSn	37 39.20	
ZGN	6.08	224	iPn	36 23.30	-2.3
VG1	6.10	314	Pn	36 29.50	3.6X
SSR	6.17	48	ePn	36 25.00	-1.8
SOF	6.25	71	iPn	36 28.50	0.4
ROB	6.47	304	Pn	36 31.00	-0.2
			eSn	37 51.00	
TIM	6.48	40	ePn	36 30.00	-1.2
OGA	6.74	334	iPnd	36 33.60	-1.5
STV	6.79	302	Pn	36 37.00	1.2
SOP	6.85	7	Pn	36 35.00	-1.5
			e	36 38.00	
FRF	6.97	295	Pn	36 35.60	-2.6
LMR	7.00	293	Pn	36 35.80	-2.7
MOA	7.00	354	iPnc	36 37.90	-0.7
			i	36 42.00	
			S	38 00.00	
BHG	7.06	346	ePn	36 38.60	-0.7
			i	36 41.60	
BUD	7.11	21	Pn	36 40.00	-0.1
			e	36 42.00	
			e	36 52.00	
ATH	7.12	111	iPnc	36 41.00	0.8
			eSn	38 04.00	
PNI	7.13	307	Pn	36 41.00	0.6
LRG	7.14	294	Pn	36 38.30	-2.2
ORO	7.15	314	Pn-	36 40.00	-0.8
KMR	7.22	354	iPnc	36 42.40	0.8
			i	36 44.00	
			i	37 07.00	
SRO	7.25	16	iPn	36 43.40	1.4
GAP	7.27	337	ePn	36 41.90	-0.4
			i	36 44.10	
			i	36 56.30	
HRB	7.28	15	ePn	36 51.60	9.1X
			eSn	38 20.00	
VIE	7.40	5	Pnc	36 44.00	-0.1
			Pn	36 46.00	
VKA	7.41	5	iPnc	36 43.30	-1.0
			Pn	36 46.00	
			e	39 00.00	
DEV	7.44	45	Pnd	36 45.00	0.2
DRA	7.58	57	Pn	36 47.00	0.3
KDZ	7.59	81	Pn	36 47.00	0.1
PVL	7.67	70	Pnd	36 47.00	-1.0
DIX	7.75	315	Pnd	36 49.50	0.2
DIM	7.79	78	ePn	36 49.00	-0.7
FUR	7.83	340	iPnc	36 49.80	-0.4
ZUL	8.26	325	Pd	36 54.50	-1.8
KHC	8.34	352	Pc	36 54.90	-2.4
			S	38 30.00	
CJR	8.35	43	ePd	36 57.30	-0.2
			e	38 40.50	

CMP	8.35	55	eP	37 00.00	2.5
BUB	8.38	327	P	36 55.00	-2.9
CLU	8.40	43	ePd	36 57.00	-1.1
MDB	8.42	48	eP	37 00.00	1.6
WET	8.44	349	iPd	36 55.30	-3.4X
JOS	8.47	24	iPc	36 58.80	-0.2
	2.0s	570.00nm			6.5mb
EZN	8.47	94	P	36 56.20	-2.9
CEI	8.51	35	P	37 00.00	0.4
BUC1	8.62	63	iP	37 04.00	2.8
BUC	8.69	62	eP	37 00.00	-2.1
BMR	8.96	38	eP	37 08.00	2.1
SPC	9.00	21	eP	37 09.30	2.7
STU	9.01	333	ePc	37 04.00	-2.5
	1.0s	340.00nm			6.7mb
MLR	9.02	56	Pc	37 05.80	-1.0
PRU	9.12	357	P	37 05.20	-2.9
	1.0s	932.00nm			7.1mb X
			S	38 49.80	
BAF	9.15	322	eP	37 06.40	-2.2
UZH	9.20	30	Pd	37 09.40	0.3
			iS	38 49.00	
PRA	9.21	356	iPc	37 07.00	-2.2
BSF	9.25	322	P	37 07.70	-2.2
			Sn	38 48.60	
ISR	9.25	59	eP	37 09.00	-1.0
GRF	9.27	343	iPc	37 07.20	-2.9
			eSn	38 47.20	
BUH	9.28	329	eP	37 07.70	-2.6
ECH	9.36	324	eP	37 08.90	-2.5
DMK	9.40	80	P	37 09.20	-2.8
CDF	9.46	325	P	37 10.20	-2.6
			Sn	38 52.40	
IZM	9.54	101	P	37 12.60	-1.3
EDC	9.55	89	P	37 12.20	-1.9
HAU	9.58	321	P	37 12.10	-2.4
			Sn	38 57.70	
VRI	9.68	55	eP	37 15.00	-0.8
KRA	9.73	18	eP	37 16.70	0.3
	2.0s	3190.00nm			7.4mb X
			i	37 18.20	
			i	37 21.20	
			i	37 27.20	
			i	37 32.30	
			iS	39 17.00	
			e	56 43.20	
			i	56 47.70	
BRD	9.73	58	eP	37 17.00	0.4
HOF	9.73	347	eP	37 13.80	-2.7
GWF	9.76	329	eP	37 14.80	-2.1
ODB	9.84	56	eP	37 22.00	3.9X
KSP	9.98	4	eP	37 18.50	-1.5
			i	37 21.30	
BRG	10.04	355	iPd	37 17.90	-2.8
TLB	10.05	64	eP	37 00.00	-13.0X
MOX	10.10	346	iPd	37 19.30	-2.3
	1.2s	956.00nm			7.1mb X
Z	15s	779.00um			
E	20s	1400.00um			
SMF	10.10	309	P	37 21.30	-0.4
BAC	10.12	52	eP	37 23.00	1.2
LBF	10.20	310	P	37 21.30	-1.7
PYM	10.21	303	P	37 23.50	0.3
			Pg	38 10.30	
			Sn	39 26.50	
			Sg	40 31.10	
CFR	10.33	61	eP	37 22.00	-2.7
ISK	10.39	85	P	37 23.70	-1.9
BIR	10.42	55	eP	37 29.00	3.0X
LOR	10.42	312	P	37 25.10	-1.0
CIN	10.43	104	eP	37 27.00	0.9
			i	37 32.00	
			iSg	37 56.00	
AVF	10.47	308	P	37 27.20	0.6
TNS	10.50	335	eP	37 24.60	-2.6
			eS	39 14.30	
SSF	10.51	310	P	37 27.60	0.3
CLL	10.55	352	iP	37 24.90	-2.8
			i	37 28.00	
			i	37 37.00	
			i	37 42.00	
			i	37 47.00	
			i	37 55.00	
			Pg	38 23.00	
			S	39 20.00	
			i	39 38.00	
			i	40 11.00	

			e	40 28.00	
			Sg	40 42.00	
BGF	10.66	306	P	37 29.50	0.2
MZF	10.67	304	P	37 29.50	0.1
YER	10.75	106	P-	37 29.60	-1.1
MLS	10.82	286	eP	37 28.50	-3.0
IAS	10.83	50	eP	37 33.00	1.5
WLF	10.89	327	ePd	37 33.00	0.6
			S	39 43.00	
TCF	10.93	304	P	37 33.40	0.3
RJF	11.02	298	P	37 33.60	-0.6
LPO	11.06	295	P	37 34.10	-0.7
EBR	11.24	275	eP	37 36.00	-1.2
			eS	39 48.00	
LSF	11.35	303	P	37 39.00	0.3
EPF	11.36	286	P	37 36.20	-2.8
GPA	11.41	88	P	37 38.30	-1.3
LFF	11.44	296	P	37 40.20	0.3
ALT	11.49	94	P	37 41.30	0.5
KIS	11.52	53	Pc	37 40.40	-0.6
BNS	11.56	333	P	37 40.30	-1.2
	2.3s	19.20nm			5.0mb X
BRN	11.63	354	ePc	37 44.00	1.6
MEM	11.69	329	P	37 45.60	2.4
DOU	11.89	324	P	37 46.40	0.5
			e	37 49.50	
			S	40 02.30	
			PcP	43 30.00	
HEE	11.92	330	iPd	37 47.20	0.8
WAR	12.01	17	ePc	37 50.00	2.4
			e	38 04.00	
			e	38 16.00	
			e	38 24.00	
			e	40 00.00	
ATE	12.13	286	eP	37 48.30	-1.0
BCK	12.33	101	P-	37 51.50	-0.6
ZGT	12.40	82	P	37 52.00	-0.9
ALI	12.45	263	iPc	37 56.00	2.4
			e	40 43.00	
UCC	12.51	326	Pc+	37 54.90	0.7
			e	38 00.60	
			S	40 21.00	
MFF	12.56	302	P	37 57.00	2.0
WTS	12.56	335	iPc	37 54.80	-0.1
MGN	12.76	84	P	37 55.80	-2.0
HAM	13.11	346	iPd	38 05.40	3.2X
DBN	13.20	332	iPd	38 07.00	3.5X
			e	39 06.00	
			eS	40 49.00	
WIT	13.31	337	eP	38 07.50	2.6
SYT	13.34	100	P+	38 06.50	0.9
ANTO	13.36	89	eP	38 06.00	0.2
	0.9s	26.00nm			5.3mb
			i	38 14.00	
SSC	13.39	310	P	38 06.60	0.6
LGR	13.42	283	iPc	38 06.70	0.1
	1.6s	1.91nm			3.9mb X
			iPP	38 16.70	
			iS	40 32.70	
LPF	13.68	307	P	38 09.90	0.0
FLN	13.69	310	P	38 11.50	1.5
GRR	13.73	309	P	38 10.80	0.3
KAS	13.91	82	P-	38 14.20	1.1
SIM	14.35	67	Pc	38 18.20	-0.5
			iS	40 55.40	
ALM	14.43	260	iPd	38 21.70	2.0
N	12s	73.00um			
			iPP	38 32.70	
			iS	41 36.30	
GUD	14.77	275	iPd	38 21.70	-2.6
TOL	14.80	272	Pc	38 24.00	-0.7
			i	38 38.00	
			iS	41 13.00	
COP	14.93	354	iPd	38 27.00	0.9
	1.4s	949.00nm			6.1mb
			iS	41 33.00	
CRT	15.16	262	iPc	38 32.10	2.7
			i	41 10.20	
			e	46 08.00	
KVT	15.65	82	P	38 36.50	0.7
MAL	15.93	261	iPd	38 45.70	6.4X
			iS	41 24.00	
HLW	17.05	125	iPc	38 50.00	-3.5X
	3.0s	800.00nm			5 3mb
			iS	43 20.00	
MTE	17.35	276	P	38 59.00	1.6
			S	42 14.10	

SFS	17.37	262	iPd	38 56.00	-1.5
			iPcP	39 36.00	
COI	18.05	276	P	39 09.00	3.0X
PTO	18.05	279	eP	39 03.00	-3.0
			iS	42 09.00	
SOC	18.25	73	Pc	39 08.40	0.0
TBZ	18.46	82	iPc	39 11.00	0.0
ECP	18.64	315	iPd	39 12.70	-0.4
	7.0s	********nm			6.7mb X
LIS	18.92	271	Pc	39 18.30	1.7
			iPP	39 27.10	
			S	42 23.00	
			LR	43 04.00	
EKA	18.92	326	P	39 17.00	0.5
	0.9s	303.00nm			5.5mb
UPP	19.05	4	iPc	39 17.30	-0.8
	1.0s	1400.00nm			6.2mb
			i	39 24.00	25kmX
			i	39 29.30	
			iS	42 51.00	
DKM	19.13	318	iPd	39 19.30	0.2
	0.9s	610.00nm			5.8mb
KON	19.13	351	eP	39 18.00	-1.0
UDK	19.23	318	eP	39 20.40	0.1
	1.3s	1180.00nm			6.0mb
DLE	19.29	317	ePd	39 20.20	-0.8
	0.9s	380.00nm			5.7mb
HFS	19.30	358	P	39 20.00	-1.2
	1.0s	802.00nm			5.9mb
Z	12s	417.00um			
EIL	19.57	119	P	39 23.00	-1.6
DCN	19.69	317	eP	39 26.90	1.2
	1.1s	1140.00nm			6.1mb
DMU	19.79	319	eP	39 26.80	0.1
	1.2s	970.00nm			6.0mb
OBN	20.05	37	Pd	39 27.40	-2.0
			iS	43 04.00	
NAO	20.16	354	P	39 30.40	-0.1
	1.0s	389.00nm			5.7mb
NUR	20.48	13	P	39 31.20	-2.7
			i	39 32.20	4km
			i	39 47.00	
			eS	43 25.00	
BER	20.49	346	iP	39 34.40	0.5
PYA	20.66	72	P	39 36.00	0.0
			iS	43 26.00	
VAL	20.70	311	iPd-	39 35.80	-0.4
			S	43 25.00	
			LR	45 14.00	
MOS	20.86	37	Pc	39 37.00	-0.8
			S	43 22.00	
PUL	21.09	21	eP	39 38.00	-2.2
			isP	39 41.00	
			iS	43 27.00	
			isS	43 28.00	
BKR	21.16	78	P	39 42.00	0.7
LEN	21.55	81	Pc	39 48.00	2.8
ERE	22.15	82	Pc	39 53.00	1.9
GRO	22.60	74	Pc	39 59.00	3.6X
			iS	44 07.00	
SUF	22.81	13	iP	39 56.60	-0.7
UME	23.15	6	P	40 00.40	-0.2
GRS	23.67	83	Pd	40 07.00	0.9
			isP	40 08.80	
			iS	44 16.00	
MAK	23.90	74	Pc	40 11.40	3.3X
TAB	24.03	87	eP	40 09.00	-0.6
			i	40 12.50	12km
BHD	24.32	99	iPd	40 13.00	0.8
Z	10s	32.50um			6.1MszX
			iPP	40 43.00	
			iPPP	41 12.00	
			iPcP	43 39.00	
			iS	44 29.00	
			i	51 43.00	
KJF	24.45	13	iP	40 12.70	-0.5
	1.4s	1600.00nm			6.5mb
			i	40 27.80	64kmX
			iS	44 35.20	
SHE	25.15	80	Pc	40 22.00	1.8
			iS	44 34.00	
BAK	26.15	80	P	40 35.00	5.5X
			S	44 54.00	
KIR	27.15	4	Pc	40 37.40	-1.1
			i	40 40.40	11km
SOD	27.26	10	P	40 39.80	0.3
			eS	45 16.00	

TABLE 4-30

23d 18h

APA	28.48	14	Pd	40	52.00	1.5	DDI	51.10	81	P	44	07.90	9.4X		0.7s	28.80nm	5.6mb
			isP	40	54.00					S	51	30.60				e	53 14.30
			iS	45	33.00		NDI	51.30	83	eP	44	01.50	1.6	PRE	67.37	167 iPd	45 49.20 -1.9
TEN	28.61	254	Pc	40	52.70	0.7		Z 20s		62.40um			6.6Msz		1.3s	138.00nm	6.0mb
			S	45	51.80			N 20s		44.00um					Z 17s	52.00um	6.8MszX
TRO	28.88	3	iP	40	54.20	0.2				eS	51	20.00				S	54 50.00
KEV	29.58	8	Pc	41	01.20	0.9	WMQ	51.97	61	Pd	44	06.10	1.2	BTO	67.95	55 Pd	45 53.00 -1.8
			eS	45	52.00					PP	46	12.00				S	54 43.00
SHD	31.07	85	eP	41	16.70	2.6	UER	53.01	50	Pd	44	14.40	1.9	CNG	68.04	164 eP	45 59.00 0.1
AKU	31.19	334	iP	41	16.30	1.7	BOM	53.44	96	P+	44	14.80	-1.2		1.4s	500.00nm	6.5mb
	1.2s	3400.00nm				7.1mb X				PP	46	20.00				e	46 21.00 85kmX
	Z 19s	100.00um				6.5Msz				S	51	43.80		INK	68.66	348 iP	45 57.00 -1.6
			i	41	20.10	13km				PPS	52	20.00			1.0s	183.00nm	6.2mb
KAT	31.19	79	Pd	41	18.00	3.1X				SS	56	00.00		CLE	68.76	307 iPc	45 59.50 -0.2
			eS	46	27.00		POO	54.44	96	P+	44	22.50	-0.9			S	55 12.00
REY	31.71	330	iP	41	20.20	1.0				PP	46	24.00		MRG	68.88	304 iPc	46 04.00 3.6X
ARU	31.91	46	eP	41	19.00	-2.1				PPP	47	36.50		YKC	69.39	338 ePd	46 03.30 0.1
			eS	46	35.00					PS	52	18.50			0.8s	59.00nm	5.8mb
SHI	32.16	99	eP	41	24.00	0.3				ScS	54	09.00				pP	46 43.30 166kmX
SVE	33.09	46	ePd	41	31.00	-0.3	GOA	56.29	99	P	44	34.70	-2.1	YKA	69.42	338 P	46 03.90 0.5
			isP	41	36.00		VAR	57.48	83	P-	44	45.20	0.0	AAM	69.55	309 eP	46 04.60 0.1
			iS	46	48.00					PcP	45	37.20				S	55 14.40
KHI	34.73	87	iPc	41	45.80	-0.3				PP	46	52.20		CDU	69.77	67 Pd	46 04.00 -2.1
TGI	35.65	88	eP	41	53.40	-0.5				PPP	48	14.20				PP	48 47.00
BCAO	36.40	175	eP	41	56.50	-3.6X				PS	52	46.20				S	55 03.00
	1.1s	66.00nm				5.4mb				PPS	52	56.20		UTO	69.89	308 iPd	46 06.30 -0.2
BNG	36.40	175	iPd	41	56.80	-3.3X				PPS	53	04.20		FDF	70.35	273 eP	46 11.10 1.3
	0.7s	24.90nm				5.1mb				ScS	54	28.20		AN7	70.56	307 eP	46 10.00 -0.7
KDS	37.12	228	iP	42	05.40	-0.7				SS	58	30.20		AN12	70.70	308 eP	46 10.90 -0.6
KUK	37.29	206	P	42	06.50	-1.1	IRK	58.49	46	iPd	44	52.00	0.0	SEY	71.01	19 ePd	46 13.00 -0.1
TDD	37.76	132	eP	42	12.40	0.9	TIK	58.51	20	Pd	44	52.00	0.2			isP	46 17.90
AAE	37.93	140	e(P)	42	13.50	0.2				epP	44	53.00	3km			eS	55 32.90
ARO	37.96	133	iPd	42	14.90	1.7				esP	44	56.00		ILT	71.02	6 Pd	46 13.80 0.8
			ePP	43	52.00		HYB	58.67	94	eP	44	50.00	-3.7X			isP	46 17.60
			eSS	50	59.20					eS	52	56.00		XAN	71.11	61 Pd	46 14.50 0.3
KBS	38.17	359	iP	42	15.70	1.4				eP'P'	14	42.00		FYU	71.85	352 eP	46 18.90 0.9
ATA	38.22	132	eP	42	17.60	2.3	ZAK	58.79	48	eP	44	55.00	1.0	BJI	72.05	52 Pd-	46 20.00 0.4
MBO	38.54	236	iP	42	20.40	2.4				eS	53	02.50			1.8s	1370.00nm	6.7mb
			i	42	21.80	5km	KRI	58.93	164	P-	44	52.00	-3.5X			eS	55 44.00
			i	42	24.00					eP'P'	14	44.00		CHI	72.13	310 P	46 20.00 -0.1
			i	42	33.00		CLK	59.16	158	P-	44	54.00	-3.0	KMI	72.16	72 P	46 21.00 0.2
			i	42	45.00					eP'P'	14	42.00				PP	49 09.00
			i	43	33.00		TET	59.21	159	eP	44	57.00	-0.2	SOB3	72.45	240 P	46 24.90 2.6
KIC	38.77	213	eP	42	18.30	-1.7		1.5s		0.62nm			3.5mb X			e	46 29.20 14km
DAG	38.82	348	iPc	42	19.00	-0.8				e	45	40.00	186kmX			e	46 35.90
	1.2s	453.00nm				6.0mb				e	47	09.00				e	46 57.50
			iPPP	43	56.00					e	48	22.00				e	47 02.10
			iS	48	20.00					e	10	12.00		MGD	72.94	22 ePd	46 26.00 1.5
SAM	38.96	74	ePc	42	21.00	-0.5	MTD	59.32	162	eP	44	52.00	-6.1X			isP	46 30.00
			isP	42	24.00		NPA	59.95	153	eP	45	01.00	-1.3			iS	55 55.00
TAS	40.11	71	ePc	42	31.00	0.1				e	45	36.00	148kmX	IMA	73.04	355 eP	46 25.00 -0.2
			eS	48	41.00		GBA	60.18	98	Pd	45	00.60	-3.5X	TRN	73.09	270 eP	46 27.90 1.8
DSH	40.65	75	Pd	42	37.00	1.6		1.4s	131.00nm				5.9mb		1.2s	94.70nm	5.8mb
GAR	41.62	74	eP	42	43.00	-0.5	BOK	60.39	83	P	45	04.20	-1.3	CHG	73.21	80 iPd	46 24.50 -2.3
			epP	42	43.60	2km	BOD	60.76	37	eP	45	07.00	-0.5		1.4s	336.00nm	6.2mb
			eS	49	07.60		LSA	61.12	74	Pd	45	11.30	0.4		Z 22s	31.50um	6.6Msz
KAAO	42.41	81	eP	42	50.30	0.2				S	53	21.30			N 22s	27.80um	
	1.0s	42.00nm				5.1mb	BUL	61.96	166	P-	45	14.00	-2.1		E 22s	33.30um	
KBL	42.41	81	iPc	42	50.00	-0.1				eP'P'	14	28.00				eS	55 58.00
ANR	42.49	71	ePd	42	51.00	0.6	VIS	62.08	90	P	45	20.00	3.0X	CHTO	73.21	80 iPc	46 24.50 -2.3
			eS	49	21.00					S	53	47.00			0.9s	122.00nm	6.0mb
KHE	42.73	9	ePd	42	54.00	2.1	MDV	62.25	305	P	45	17.50	-0.3			i	46 47.00 86kmX
			iS	49	17.00		KOD	62.37	101	Pd	45	19.00	-0.2	COL	73.73	353 iP	46 30.30 1.3
QUE	42.80	88	eP	42	53.10	-0.2				PcP	45	54.00			1.3s	399.00nm	6.3mb
			eS	49	22.00					PP	47	40.00			Z 19s	43.10um	6.8Msz
KHO	43.07	76	P	42	55.70	0.2				PPP	49	10.00				eS	56 06.00
			S	49	22.70					PS	54	04.00		FBA	73.73	353 iPd	46 30.10 1.1
FRU	43.41	67	ePd	42	58.00	0.1				PPS	54	15.00		ORT	73.87	304 eP	46 28.80 -1.6
			isP	43	01.50					SSS	00	40.00		GYA	74.15	69 Pd	46 33.30 1.0
			iS	49	33.60					LQ	01	12.00				PP	49 17.30
GDH	45.04	332	iPd	43	11.50	0.8				LR	03	58.00		CN2	74.88	45 Pd	46 36.50 0.4
	0.8s	313.00nm				6.3mb	WNY	62.47	306	P	45	18.30	-1.0			S	56 16.00
			iPcP	45	00.00		MDR	62.63	97	P	45	20.70	0.1	TIA	75.04	55 Pd	46 37.00 -0.2
			iS	49	45.00					S	53	48.00		CUM	75.31	271 iPc	46 47.80 8.8X
TLG	45.19	65	Pc	43	12.00	-0.3	CAL	63.07	83	P-	45	26.00	2.6		1.0s	115.00nm	5.9mb
			epP	43	13.00	3km				S	53	54.00		FVM	76.29	308 ePd	46 43.00 -1.3
			iS	49	58.00		APH	63.14	306	P	45	24.00	0.3		Z 18s	48.00um	6.9Msz
KSH	45.54	71	Pd	43	17.00	1.7	SHL	63.96	78	P-	45	30.00	0.5	WHN	76.87	61 Pd	46 48.00 0.4
			iS	49	59.00					S	54	06.00		PMR	77.10	352 ePd	46 49.10 0.8
NVS	45.85	48	P	43	16.60	-0.7	GPD	64.63	303	P	45	31.00	-2.5		Z 20s	30.00um	6.6Msz
			iS	50	01.80		YAK	64.71	28	Pd	45	33.20	-0.4	CAR	77.37	273 eP	46 52.00 1.3
PRZ	46.15	66	eP	43	21.00	0.9				isP	45	39.20			1.5s	133.00nm	5.8mb
NAI	46.29	150	eP	43	24.00	2.5				iS	54	09.70			Z 20s	29.40um	6.6Msz
	3.0s	1600.00nm				6.5mb	PRIN	65.15	303	P	45	37.00	0.2		N 20s	20.70um	
BHK	49.34	81	P	43	47.00	2.0	LZH	66.53	62	Pd	45	45.70	-0.3		E 20s	9.75um	
			S	50	52.20		AVY	66.68	146	ePd	45	44.90	-2.1	PCT	77.63	81 eP	46 51.20 -0.7
AJM	50.43	88	P+	43	52.00	-1.3	KSR	67.27	169	iPd	45	48.50	-2.1		1.0s	72.80nm	5.7mb

23d 18h

SVW	78.09	356	eP	46 55.00	1.2
LDJ	78.69	323	iPd	46 58.80	1.4
	1.5s	572.00nm			6.4mb
VLA	78.71	42	Pd	46 57.60	0.1
NJZ	78.83	57	Pd	46 59.00	0.7
SIT	79.34	344	eP	47 03.10	2.5
TOV	80.00	274	eP	47 07.00	2.0
BBJ	80.11	286	eP	47 06.30	0.8
RLO	80.23	310	eP	47 05.50	-0.3
			i	47 07.30	6km
RXF	80.51	329	iP	47 08.10	0.8
YKM	80.74	330	iP	47 09.30	0.8
YSS	80.77	33	ePd	47 09.00	0.6
			ipP	47 10.00	3km
			iS	57 21.00	
LGN	80.88	275	eP	47 09.00	-0.6
LDM	80.92	329	iP	47 10.50	1.1
SSE	80.95	57	Pd	47 10.00	0.3
			PP	50 11.00	
			S	57 13.00	
GZH	80.98	67	Pd	47 11.00	1.1
			PP	50 24.00	
BAO	81.17	241	eP	47 11.00	-0.2
KDC	81.20	353	eP	47 11.10	0.6
SDV	81.21	274	eP	47 11.30	-0.3
PET	81.25	21	eP	47 10.00	-0.9
			esP	47 14.80	
			eS	57 10.00	
SOR	81.39	293	Pd	47 12.00	-0.2
MSO	81.69	328	iPd	47 14.60	1.1
	1.6s	560.00nm			6.4mb
	Z 20s	59.30um			6.9Msz
			PcP	47 43.50	
			eS	57 29.60	
NEW	81.77	330	iPd	47 15.10	1.3
	Z 18s	86.00um			7.2Msz
	N 18s	45.00um			
	E 18s	75.00um			
			e	47 29.00	48kmX
			e	47 34.00	
UAV	81.77	274	eP	47 15.00	0.5
	0.6s	28.60nm			5.5mb
SNG	81.80	88	iPc	47 16.00	1.6
	1.4s	15.00nm			4.9mb X
			eS	57 20.00	
BCM	81.90	326	iPd	47 15.90	1.2
			e(pP)	47 54.80	156kmX
HKC	82.07	68	P	47 18.00	2.4
			pP	47 36.00	65kmX
			pPP	50 46.00	
			()	52 18.00	
			S	57 32.00	
YMC	82.10	325	P	47 17.40	1.6
SKR	82.58	24	Pc	47 20.00	2.1
TSI	82.61	92	ePc	47 10.80	-7.8X
	0.9s	326.00nm			6.5mb
BDW	83.00	323	iPd	47 21.00	0.5
	1.5s	446.00nm			6.4mb
GLD	83.21	318	P	47 23.20	1.6
	Z 18s	73.00um			7.1Msz
SAP	83.29	37	eP	47 23.00	1.4
			eS	57 42.00	
GOL	83.33	318	iP	47 23.20	0.9
	1.5s	402.00nm			6.4mb
	Z 18s	48.00um			6.9Msz
OZH	83.37	63	Pd	47 22.50	0.2
			PP	50 43.00	
			eS	57 40.00	
PSI	83.40	92	ePc	47 21.10	-1.6
	1.4s	491.00nm			6.5mb
			i	47 23.80	9km
GAL	83.48	279	iP	47 10.50	-12.5X
RDJ	83.53	232	Pd	47 24.40	1.4
			ePP	50 38.00	
			eS	57 48.40	
PGC	83.69	334	eP	47 24.40	0.8
IPM	83.78	89	ePd	47 24.10	-0.5
	1.1s	91.80nm			5.9mb
SDN	84.08	358	eP	47 27.20	1.8
KUR	84.31	32	Pc	47 30.40	3.6X
			iS	57 55.00	
GMW	84.42	333	P	47 29.00	1.6
LON	84.76	332	iPd	47 30.40	1.2
	1.8s	1300.00nm			6.9mb
SMY	84.97	13	e(P)	47 31.70	1.8
	Z 18s	20.00um			6.5Msz
NHA	85.02	78	P	47 32.00	1.2

			eS	58 08.00	
ANP	85.16	61	Pc	47 39.00	7.5X
			S	58 02.00	
TATO	85.28	61	eP	47 36.00	4.0X
	1.5s	2.00nm			4.1mb X
SHK	85.39	47	eP	47 33.20	0.8
			eS	57 51.80	
MSA	85.81	317	P	47 36.80	1.8
LUB	86.00	312	eP	47 36.00	0.4
MIZ	86.28	39	iPc	47 41.20	4.5X
			S	58 16.00	
BOG	86.55	273	eP	47 38.50	-0.4
			eS	58 21.00	
PPI	86.56	94	eP	47 39.00	0.5
	1.0s	56.60nm			5.7mb
ABU	86.74	45	ePc	47 41.00	1.9
HEN	86.81	64	eP	47 47.00	7.4X
MAT	86.85	43	eP	47 40.00	0.4
	1.9s	584.00nm			6.5mb
			eS	58 14.00	
JCT	87.07	308	eP	47 43.00	2.2
	Z 20s	78.00um			7.1Msz
			eS	58 12.00	
COR	87.16	332	iPd	47 42.00	1.1
KGM	87.17	90	eP	47 41.00	-0.5
	1.6s	548.00nm			6.6mb
ALQ	87.50	316	eP	47 41.70	-1.3
	Z 19s	69.40um			7.1Msz
CHN	87.50	274	iP	47 45.00	1.8
MSU	87.58	321	P	47 45.20	1.8
DDR	87.77	42	eP	47 45.50	1.4
TSK	88.07	42	eP	47 45.80	0.3
BMN	88.29	326	iPd	47 47.80	1.1
	1.5s	227.00nm			6.3mb
EUR	88.53	324	iP	47 48.50	0.5
	1.1s	16.40nm			5.2mb
PIP	89.21	66	eP	47 53.00	1.9
MIN	90.17	329	iP	47 56.00	0.5
WCN	90.29	327	P	47 57.80	1.6
WDC	90.33	329	iPd	47 56.10	0.0
			PKKP	05 29.00	
			i	47 00.00	
BAG	90.48	68	Pd	47 57.00	-0.3
			eS	57 34.00	
FHC	90.69	330	iP	47 59.30	1.5
ORV	90.80	328	iPd	47 58.30	0.0
			PKKP	05 27.00	
PSO	91.24	273	eP	48 01.00	-0.1
LPS	91.37	290	eP	48 02.50	1.2
	1.2s	141.00nm			6.2mb
			eS	58 50.00	
JAS	91.73	327	iPd	48 03.80	1.2
			i	48 07.00	10km
			PKKP	05 26.00	
TUC	91.81	317	ePd	48 04.00	0.8
MAN	92.02	69	eP	48 05.50	1.3
			eS	51 52.00	
FRI	92.23	326	iP	48 05.80	0.9
			i	48 10.00	13km
			PKKP	05 25.00	
BKS	92.53	328	eP	48 07.10	0.8
	2.0s	710.00nm			6.7mb
	Z 20s	100.00um			7.3Msz
	N 20s	24.00um			
	E 20s	93.00um			
			e	48 50.00	170kmX
ARN	92.69	327	eP	48 06.00	-1.1
MHC	92.75	327	iPd	48 08.80	1.4
			e	48 13.00	13km
			PKKP	05 24.00	
OAO	93.04	272	iPd	48 13.00	3.6X
			iS	59 18.00	
SAO	93.16	327	eP	48 10.00	0.8
GLA	93.25	320	iP	48 10.30	0.6
NCE	93.33	272	eP	48 13.50	2.6
PRI	93.36	326	iP	48 11.90	1.6
			PKKP	05 23.00	
PPR	93.63	74	ePc	48 14.30	2.7
	1.2s	95.00nm			6.1mb
PAS	93.93	323	eP	48 13.00	0.2
	2.0s	399.00nm			6.4mb
	Z 20s	40.00um			6.9Msz
	N 20s	39.00um			
	E 20s	45.00um			
			ePP	52 03.00	
			eS	59 48.00	
			eP'P'	13 29.00	

IIC	94.47	301	eP	48 18.60	2.7
III	95.60	300	eP	48 21.30	0.3
ZOBO	95.65	254	eP	48 20.20	-1.3
	1.5s	6.50nm			4.9mb X
LPB	95.80	253	Pc	48 22.00	0.0
			PP	52 16.00	
			SKS	59 09.00	
			e	20 20.00	
CNP	96.02	68	ePc	48 22.70	0.1
LEM	96.15	94	ePc	48 23.00	-0.3
	1.6s	133.00nm			6.2mb
			iS	52 35.00	
PLP	97.17	69	eP	48 34.00	6.2X
ARE	98.23	255	eP	48 30.00	-2.8
			ePP	52 30.00	
			eS	59 20.00	
			ePS	01 36.00	
			eSS	06 22.00	
			e	16 00.00	
HUA	98.25	261	eP	48 36.50	3.4X
CGP	98.83	71	eP	48 33.60	-1.6
			eS	51 44.00	
NNA	99.36	262	P	48 36.00	-1.6
			eS	59 24.00	
PPH	100.31	70	ePdiff	48 43.20	1.2
DAV	100.40	71	Pdiff	48 48.00	5.6X
			eS	52 47.00	
LPA	101.06	233	ePdiff	48 46.00	1.1
	Z 19s	45.10um			7.0Msz
BAA	101.19	234	Pdiff	48 47.90	2.4X
			PP	52 59.90	
			PS	01 58.90	
			SS	07 39.90	
			LR	22 29.90	
CYA	101.88	243	Pdiff	48 40.50	-8.3X
			PP	53 30.00	
			SKS	59 00.00	
			S	19 40.00	
ANT	102.07	249	ePdiff	48 52.00	2.4X
VCA	103.70	244	Pdiffd	49 05.20	8.2X
			SKS	59 54.00	
CFA	105.52	242	Pdiffc	49 12.00	7.1X
GUMO	108.49	52	e(Pdif	49 19.50	1.2
GUA	108.56	52	e(Pdif	49 19.30	0.6
KUPT	110.38	86	e(PKP)	53 24.50	-3.5X
NVL	111.37	181	ePdiff	49 37.00	7.1X
MAW	113.96	162	ePKP	53 34.00	0.7
MEK	116.47	103	ePKP	53 39.00	-0.4
MUN	117.73	109	ePKP	53 42.00	0.4
JAY	117.84	67	e(PKP)	53 41.00	-1.4
NWAO	118.97	110	ePKP	53 43.00	-0.9
WBN	122.19	98	ePKP	53 50.00	-0.3
WRA	124.55	87	PKPd	53 54.00	-1.0
	1.5s	98.30nm			
WBZ	124.55	87	ePKP	53 52.50	-2.5X
			e	53 54.20	
			ePP	55 35.10	
LML	125.22	65	ePKP	53 57.00	0.6
ASP	126.36	91	ePKP	53 57.00	-1.5
RAB	126.80	58	ePKP	54 00.00	0.4
PMG	127.22	67	iPKPd	-54 02.00	1.7
	1.0s	92.00nm			
	Z 20s	16.30um			6.7Msz
LMG	127.56	66	ePKP	54 02.00	0.9
ISO	128.94	84	ePKP	54 05.00	1.5
SPA	130.69	180	iPKPd	54 06.00	0.5
	1.0s	45.00nm			
	Z 20s	22.00um			6.9Msz
CTA	133.59	79	PKP	54 03.60	-8.7X
			i	54 12.50	
			iPP	56 40.00	
			iPKS	57 42.00	
ADE	135.61	101	PKPc	54 17.50	1.7
HNR	135.73	55	ePKP	54 18.00	1.5
			eS	07 08.00	
DRV	140.35	149	PKP	54 22.00	-1.4
SBA	141.10	171	iPKP	54 27.00	2.4X
			PP	57 24.00	
			e	33 00.00	
TOO	141.67	102	ePKP	54 22.00	-4.8X
CAN	143.46	97	ePKP	54 26.60	-3.4X
			ePP	57 46.70	
TAU	144.59	110	ePKP	54 28.00	-3.6X
			e	18 44.00	
KOU	146.76	62	PKPc	54 36.10	0.3
PVC	147.27	53	PKPc	54 35.50	-1.2
AMN	149.24	311	iPKP	54 46.10	6.3X

23d 18h

	1.5s	1440.00nm					YAM	1.99	259	P-	17 59.70	1.8	MAI	6.75	244	P	19 07.00	2.0
RKT	149.42	296	iPKP	54 46.50	6.5X					S	18 24.20					eS	20 23.10	
	1.3s	570.00nm					FKS	2.06	245	P	17 58.70	-0.1	KYO	6.75	240	P	19 07.50	2.5
NOU	149.42	62	PKPd	54 40.50	0.5					eS	18 28.00					iS	20 21.80	
OTP	149.49	311	iPKP	54 46.70	6.5X		HAC	2.13	332	P	18 01.60	1.8	NAR	6.88	237	P	19 11.00	4.2X
	1.5s	920.00nm								iS	18 26.60		OSK	7.04	237	P	19 11.00	2.0
NAE	149.58	310	iPKP	54 46.90	6.6X		SKH	2.25	276	P	18 01.00	-0.5				S	20 30.00	
	1.5s	1040.00nm					YAMJ	2.25	259	P+	18 01.30	-0.2	OWA	7.04	232	P	19 10.00	0.9
FRT	149.60	311	iPKP	54 46.90	6.6X		ONA	2.29	223	P	18 01.00	-1.0				S	20 20.90	
	1.5s	680.00nm								iS	18 26.80		TYK	7.12	247	P-	19 11.60	1.5
TPT	150.23	325	iPKP	54 48.80	7.5X		AKI	2.38	298	P	18 04.00	0.7				iS	20 36.60	
	1.5s	1600.00nm								S	18 36.00		WKYJ	7.32	235	P	19 12.00	-1.1
RUV	150.31	325	iPKP	54 48.80	7.3X		SHR	2.57	234	P	18 05.00	-1.1	TOTJ	7.54	248	P	19 17.00	0.9
	1.5s	960.00nm					AOM	2.68	324	P	18 10.00	2.4	HIM	7.56	242	P	19 23.00	6.7X
PMO	150.37	326	iPKP	54 49.00	7.5X		AOMJ	2.69	316	P	18 10.00	2.2				S	21 00.90	
	1.5s	960.00nm					MIT	2.94	220	P+	18 12.90	1.5	KUR	7.57	28	Pc	19 11.40	-5.0X
VAH	150.46	325	iPKP	54 49.00	7.3X					eS	18 49.00					eS	20 36.00	
	1.5s	800.00nm					UTS	3.16	229	P	18 14.00	-0.4	WKY	7.59	237	P	19 16.70	-0.1
AFI	152.42	15	PKP	54 44.00	-0.7		NIIJ	3.34	246	P	18 18.00	1.0				eS	20 43.50	
			PP	58 29.00			URA	3.51	359	P	18 19.00	-0.4	TOT	7.59	248	P	19 17.90	1.1
			PPP	02 10.00						eS	19 02.00		SUM	7.70	238	P	19 19.00	0.7
			SKSP	08 36.00			KMU	3.59	2	eP	18 17.90	-2.6	SHJ	7.73	230	P	19 19.00	0.4
			SKKS	11 17.00			AIK	3.67	262	P	18 25.60	3.9X				eS	20 44.00	
			SSP	18 44.00						eS	19 18.80		SAI	7.94	255	P+	19 20.70	-0.9
			SSS	23 25.00			KMG	3.71	229	P	18 22.00	-0.3				S	20 57.50	
			LQ	35 00.00						eS	19 13.00		TKS	8.08	238	P	19 21.50	-2.0
PPN	153.28	326	ePKP	54 51.00	5.3X		MAE	3.74	234	P	18 23.00	0.2				()	21 03.60	
	1.5s	330.00nm								S	19 08.90		OKA	8.19	244	P-	19 25.90	0.9
PPT	153.37	326	ePKP	54 51.00	5.1X		TOK	3.84	221	P	18 22.00	-2.2				S	20 59.40	
	1.5s	520.00nm								eS	19 09.00		YONJ	8.26	248	P	19 27.00	1.0
TVO	153.42	326	iPKP	54 50.20	4.7X		DDR	3.93	229	eP	18 23.80	-1.6	TKM	8.28	241	P	19 25.50	-0.8
	1.5s	720.00nm					TKD	3.94	248	P	18 27.80	2.3				eS	21 07.00	
AFR	153.43	327	ePKP	54 51.00	5.0X		MRRJ	4.00	341	P	18 27.00	0.6	YSS	8.36	359	Pc	19 24.00	-3.4X
	1.5s	520.00nm					CHJJ	4.01	231	P	18 25.00	-1.6				iS	20 57.00	
PAE	153.46	326	ePKP	54 51.00	5.0X		NGN	4.18	243	P	18 30.50	1.5	MTS	8.43	251	P	19 29.00	0.7
	1.5s	560.00nm								iS	19 23.70					S	21 03.10	
MSZ	159.57	110	ePKP	55 04.00	11.1X		MAT	4.23	242	P	18 30.00	0.3	TKSJ	8.48	239	P	19 28.00	-1.1
			e	55 37.00						S	19 23.00		MRT	8.85	235	P	19 35.00	0.9
RAR	159.95	347	ePKP	55 01.00	7.0X		TMS	4.44	214	P	18 31.00	-1.5				S	21 22.00	
RHP	161.13	108	iPKP	54 56.50	1.8		KUS	4.48	15	P	18 31.00	-2.1	KOC	9.08	239	P	19 41.00	3.7X
			PP	55 44.00						eS	19 19.00					S	21 32.30	
			e	56 19.00			MTMJ	4.49	244	P	18 35.00	1.6	SHK	9.14	246	ePd	19 38.40	0.2
			e	59 31.00			KOF	4.53	230	P	18 37.00	3.1X	HIR	9.40	246	P	19 43.00	1.3
COB	162.94	98	iPKP	54 50.80	-5.7X					eS	19 30.00		HMD	9.41	250	P	19 41.00	-0.9
KRP	164.42	85	iPKP	54 54.80	-3.2X		SAP	4.55	346	P	18 35.00	1.0				S	21 34.00	
WEL	164.49	98	PKP	54 54.00	-4.0X					eS	19 27.00		MTY	9.43	242	P	19 41.00	-1.1
			PP	58 56.00			MTM	4.55	240	P	18 40.00	5.8X				eS	21 30.00	
			PPP	03 32.00			SUT	4.58	335	P	18 39.00	4.5X	UWA	9.93	240	P	19 47.00	-2.0
			PcPP'	05 05.00			KUSJ	4.67	17	P	18 32.00	-3.7X	ASZ	9.94	236	P	19 53.00	4.0X
			SKKS	07 34.00			AJI	4.68	221	P	18 37.00	1.1				eS	21 42.00	
			SKSP	12 25.00						S	19 33.50		SHNJ	10.47	248	P	19 59.00	2.6
			SS	20 30.00			MIS	4.72	223	P	18 41.50	5.1X	OIT	10.57	243	P	20 01.00	3.3X
			SSS	27 06.00						eS	19 39.00					eS	22 01.00	
GNZ	166.50	86	iPKP	55 04.50	4.8X		KTJ	4.77	220	P	18 34.20	-2.9X	SHN	10.68	248	P-	19 59.40	0.2
S.D. = 1.4 on 432 of 504 obs.							OSH	4.77	217	P	18 35.80	-1.4				S	22 11.90	
							WAJ	4.85	257	P	18 40.40	2.0	NOB	10.90	240	P	20 06.00	3.8X
JAN 18, 1981 18h 17m 26.03± 0.25s										eS	19 34.00					eS	22 11.00	
38.649 N ± 1.4km 142.836 E ± 2.0km							TOY	4.87	248	P	18 41.00	2.5	ASJ	11.15	242	P-	20 05.10	-0.6
DEPTH = 48.2 ± 2.1 km							IIDJ	5.05	233	P	18 41.00	-0.3				eS	22 14.00	
6.2mb (66 obs) 7.0Msz (11 obs.)							IID	5.08	233	P-	18 47.80	6.2X	FKK	11.27	247	P	20 10.00	2.8
NEAR EAST COAST OF HONSHU, JAPAN(228)										eS	19 44.00					eS	22 19.00	
Felt (IV JMA) at Miyako, Sendai							TKY	5.09	242	P	18 46.30	4.4X	KUM	11.44	243	P-	20 11.50	2.0
and Morioka; (III JMA) at										eS	19 40.70					eS	22 24.00	
Ofunato, Ishinomaki, Fukushima,							SHZ	5.11	225	P	18 44.00	2.0	MYZ	11.48	238	P	20 11.00	0.9
Hachinohe, Onahama, Akita,										S	19 42.00					eS	22 38.00	
Shirakawa, Sakata and							NEM	5.12	23	P	18 38.00	-4.1X	SAG	11.49	246	P	20 09.00	-1.2
Utsunomiya; (II JMA) at Urakawa,										eS	19 33.00					eS	22 31.00	
Maebashi, Tokyo, Tateyama,							ASA	5.13	356	P	18 42.00	-0.3	KUMJ	11.52	242	P	20 12.00	1.5
Yokohama and Kofu. Local tsunami										eS	19 51.00		CBI	11.54	183	P	20 06.00	-4.8X
generated with maximum wave							KAN	5.34	249	P	18 47.00	1.7				eS	22 12.00	
heights (peak to trough) 20 cm.							ASAJ	5.47	359	P	18 46.00	-1.0	IZU	11.77	252	P	20 15.00	1.0
at Urakawa and Ofunato, 15 cm.							HMM	5.69	228	P	18 51.00	0.9	UNZ	11.79	244	P	20 13.50	-0.8
at Aikawa, 14 cm. at Hachinohe,										iS	20 04.20		NGS	12.08	245	P	20 18.00	0.0
13 cm. at Hiroo and 12 cm. at							TK04	5.84	225	P	18 52.00	-0.1	KAG	12.28	239	P	20 20.00	-0.7
Miyako and Ofunato.							GIF	5.84	238	P	18 52.00	-0.3				eS	22 45.00	
										eS	20 03.00		KAGJ	12.30	236	P	20 20.00	-1.1
OFU	0.97	296	P-	17 42.30	-1.1		NAG	5.85	235	P	18 53.00	0.7	TAJ	12.53	234	P	20 23.00	-1.0
			iS	17 56.60						eS	20 12.00					eS	22 53.00	
OFUJ	1.01	296	P	17 42.00	-2.0		FUK	5.87	246	P	18 53.00	0.4	FKJ	12.83	247	P	20 32.00	3.9X
MIY	1.20	326	P-	17 44.60	-2.1					S	20 08.90					eS	23 03.00	
			S	18 02.90			HJJ	6.06	205	P	18 54.00	-1.4	CN2	14.06	297	P	20 45.00	0.9
ISN	1.22	260	P-	17 46.00	-1.0					S	20 04.80		NZJ	15.11	231	P	20 55.00	-2.8
			iS	18 01.60			TK02	6.23	223	P	18 56.00	-1.5				eS	23 49.00	
SEN	1.57	256	P+	17 51.20	-0.7		HIK	6.26	239	P	19 01.30	3.2X	SKR	15.25	34	eP	20 59.00	-0.6
			S	18 10.40						eS	20 22.40					eS	23 39.60	
MRK	1.67	309	P	17 53.00	-0.3		TSRJ	6.30	243	P	18 58.00	-0.7	MVI	16.10	221	P	21 23.20	12.7X
			eS	18 18.00			TK01	6.46	223	P	18 59.00	-1.6				eS	24 06.00	

TABLE 4-33

																						18d	18h
NGO	17.33	230	P	21	22.50	-3.5X	PRZ	48.05	296	eP	26	02.00	-0.6	PGC	64.41	47	eP	28	04.50	5.3X			
			eS	24	34.50					eS	33	02.00		TRO	64.55	341	iP	27	58.40	-1.4			
NAH	17.78	230	P	21	28.00	-3.6X	ESA	48.71	170	P	26	08.50	0.9	NOU	64.55	156	Pc	27	58.00	-2.3			
			eS	24	49.70		MKS	48.72	212	ePc	26	10.50	2.8	KIR	65.40	339	P	28	03.90	-1.5			
PET	18.05	32	eP	21	38.00	3.3X	NRN	50.09	296	eP	26	19.00	0.6				ipP	28	13.50	31kmX			
SSE	19.27	254	P	21	46.00	-3.5X				eS	33	35.00		VUN	65.51	142	eP	28	06.20	-0.3			
TIA	20.54	271	Pc	22	00.00	-2.9X	HNR	50.42	158	eP	26	18.00	-2.7		1.3s	247.00nm			6.1mb				
NJ2	20.61	259	Pc	22	00.00	-3.6X	FRU	50.58	298	ePc	26	20.00	-1.8	KJF	65.56	334	P	28	05.40	-0.9			
BJI	20.64	282	Pc	22	01.00	-2.9X				iS	33	27.00					i	28	14.00				
MGD	22.06	11	eP	22	03.00	-14.9X	KSH	50.81	293	Pc	26	24.00	0.3				eS	36	50.00				
			isP	22	08.00		IPM	50.87	239	iPd	26	23.50	-0.7				eSS	41	00.00				
			eS	26	22.00			1.5s	46.00nm			5.3mb		KHI	65.60	295	eP	28	07.80	0.5			
TATO	22.62	239	eP	22	22.00	-1.7	KGM	51.29	235	ePd	26	26.50	-0.9	TGI	65.81	294	eP	28	07.50	-1.2			
HWA	23.22	237	P	22	26.20	-3.4X		1.4s	327.00nm			6.2mb		NAU	66.05	208	eP	28	08.00	-1.9			
			eS	26	36.50		KHE	51.30	348	ePc	26	26.00	-0.8	WBN	66.22	196	Pd	28	09.70	-1.3			
TCU	23.72	239	P	22	22.10	-12.3X				eS	33	43.00		PNT	66.23	45	eP	28	10.00	-1.0			
			S	28	07.30		KUPT	51.76	204	ePd	26	42.00	11.1X		1.0s	300.00nm			6.3mb				
QZH	24.63	243	Pc	22	41.00	-2.3	MTN	52.38	194	eP	26	33.00	-2.5				pP	28	28.00	67kmX			
WHN	24.73	260	Pc	22	43.00	-1.2	INK	52.45	28	eP	26	34.00	-1.5	MOS	66.63	324	Pc	28	12.00	-1.3			
SEY	24.97	10	Pd	22	44.40	-1.8		1.0s	184.00nm			6.1mb					iS	37	01.00				
GUA	25.08	175	e(P)	22	53.00	5.4X	MUR	52.70	293	P	26	38.00	-0.4	SUF	67.05	333	P	28	14.90	-1.0			
	1.9s	3960.00nm			6.6mb		ANR	52.90	296	Pc	26	39.30	0.0	AFI	67.33	131	eP	28	16.00	-2.3			
			e(S)	27	14.00					iS	34	11.00					S	37	12.00				
SMY	25.74	47	eP	22	58.50	5.0X	TSI	53.32	240	e(P)	26	43.00	0.4				SS	41	00.00				
XAN	27.61	271	P	23	09.00	-1.8	TRT	53.99	218	ePc	26	47.80	0.4				LQ	45	00.00				
SZP	28.70	229	iPc	23	22.00	1.4	BSI	54.15	245	e(P)	26	48.00	-0.7				LR	48	00.00				
	1.0s	36.00nm			5.0mb X		NDI	54.48	280	P	26	49.50	-1.5	PUL	67.38	330	Pc	28	17.00	-0.9			
			iS	28	26.00					iS	34	27.00					iS	37	10.00				
HKC	29.43	245	P	23	28.00	0.8	MBC	54.66	17	eP	26	49.00	-2.7	EDM	67.38	39	eP	28	17.60	-0.6			
BAG	29.52	228	eP	23	28.00	-0.3		1.0s	281.00nm			6.2mb			1.6s	1030.00nm			6.6mb				
			eS	28	21.00		SVE	54.70	318	Pc	26	51.60	-0.7	OBN	67.43	323	Pc	28	18.00	-0.4			
GZH	29.53	247	Pc	23	27.30	-0.8				ipP	26	52.00	1kmX				iS	37	16.00				
IRK	29.87	310	Pc	23	29.00	-2.0				iS	34	28.00		FHC	68.17	55	iP	28	24.70	1.4			
			eS	28	20.00		KHO	54.79	293	Pc	26	52.90	-0.6	NEW	68.19	45	eP	28	23.00	-0.4			
ZAK	30.19	306	Pc	23	33.00	-0.7	TAS	54.81	298	Pc	26	52.00	-1.4		Z 19s	35.00um			6.6Msz				
LGP	30.52	219	ePc	23	39.80	2.8	MNL	55.04	287	eP	26	56.00	0.9		N 19s	30.00um							
MAN	30.65	225	iP	23	38.00	-0.1	PPI	55.04	235	eP	26	56.00	0.8		E 19s	20.00um							
OCP	30.67	225	eP	23	26.10	-12.1X	NIL	55.19	288	eP	26	55.50	-0.7				e	28	40.00				
LZH	30.94	278	Pc	23	40.00	-0.7	KNA	55.69	196	eP	26	58.00	-1.8	UME	68.27	336	P	28	21.70	-1.8			
			S	28	33.00		KUL	55.90	294	Pc	27	00.30	-0.9				ipP	28	31.90	33kmX			
ADK	30.99	51	eP	23	44.70	4.0X	DSH	56.31	295	Pc	27	03.00	-1.3	MAK	68.36	308	P	28	22.00	-2.4			
PLP	31.67	215	ePc	23	45.50	-1.6				iS	34	50.50		YKM	68.63	44	iPc	28	27.10	0.9			
GYA	32.62	259	Pc	23	55.00	-0.4	PSH	56.41	289	eP	27	04.00	-1.0	MEK	68.79	203	eP	28	27.00	-0.1			
			S	29	05.00		SAM	57.09	297	Pc	27	08.20	-1.6	RXF	68.95	44	iPc	28	28.70	0.6			
CDU	32.73	268	P	23	56.00	-0.2				iS	35	05.20		NUR	69.05	332	Pc	28	27.00	-1.4			
			eS	29	06.00		KAAO	57.90	291	eP	27	14.40	-1.3		Z 18s	265.00um			7.5Msz				
TIK	33.82	352	eP	24	03.00	-2.2	ALE	58.45	4	eP	27	17.00	-1.7				i	28	37.80				
			eS	29	19.00			1.3s	525.00nm			6.5mb					eS	37	32.00				
CGP	34.21	213	ePc	24	06.20	-2.9X	CTA	58.51	176	P	27	21.90	2.2				eSS	41	52.00				
DAV	35.08	211	P	24	15.00	-1.5	WB2	58.82	189	P	27	19.30	-2.6	LDM	69.08	44	iPc	28	30.30	1.5			
BGV	35.83	252	P	23	23.00	-59.9X				i	27	24.80		WDC	69.21	54	iPc	28	30.50	0.8			
PPR	35.96	223	ePd	25	24.50	60.5X				eS	35	20.60		GRO	69.25	309	eP	28	30.00	0.1			
ILT	36.13	24	Pc	24	21.60	-3.3X	WRA	58.82	189	Pd	27	19.50	-2.4	MIN	69.93	54	iP	28	34.30	0.0			
			eS	30	03.00			0.9s	45.20nm			5.6mb		SES	70.20	41	eP	28	34.00	-1.6			
KMI	36.33	260	Pc	24	25.50	-1.9	KBS	59.27	350	iPc	27	23.30	-1.1		1.3s	768.00nm			6.5mb				
			S	30	02.00		HYB	59.37	268	Pc+	27	24.90	-1.1	KRV	70.36	307	P	28	35.00	-1.7			
NHA	39.81	238	P	24	57.70	1.4				e	30	57.00		PYA	70.43	311	eP	28	36.00	-1.1			
			eS	31	00.00					eS	35	29.60					iS	37	48.00				
MOM	40.71	173	eP	25	03.00	-0.6				eSS	39	36.00		ORV	70.44	55	iPc	28	37.30	0.0			
ELT	40.85	310	Pc	25	03.90	-0.5	RES	60.76	15	eP	27	33.00	-1.6	MTA	70.72	308	Pc	28	47.20	8.4X			
			eS	31	15.00			0.7s	206.00nm			6.4mb		MSO	70.78	45	iPc	28	42.00	2.7			
JAY	41.01	183	ePc	25	06.70	0.6	PVC	60.96	152	Pc	27	35.30	-1.2		1.3s	166.00nm			5.8mb				
	1.0s	62.30nm			5.3mb		PHC	61.16	47	eP	27	44.50	6.9X	BKS	70.91	57	P	28	42.00	1.9			
WMQ	41.14	295	Pc	25	07.00	0.0	OUE	61.54	287	iPc	27	39.30	-1.5		E 20s	24.00um							
			iS	31	20.00					eS	35	56.00					S	37	59.00				
NRI	42.12	334	Pc	25	12.00	-2.6	APA	61.71	336	Pc	27	39.20	-2.0				LQ	45	51.00				
			iS	31	35.00					iS	35	59.00					LR	49	46.00				
CHTO	42.79	255	eP	25	20.00	-0.7	YKC	61.91	31	eP	27	41.00	-1.5	GRS	71.01	306	Pc	28	39.60	-1.3			
ISA	43.20	274	Pc	25	23.20	-1.3		1.1s	177.00nm			6.1mb					ipP	28	40.40	3kmX			
			S	31	48.00		KOU	62.24	157	Pc	27	44.40	-0.7	BKR	71.48	309	Pc	28	44.40	0.7			
TTA	43.4[illegible]	36	e(P)	2[illegible]	27.40	1.7	KEV	62.33	339	Pc	27	45.60	0.3				iS	37	56.40				
RAB	43.49	1[illegible]	P	[illegible]	25.00	-1.4				i	27	53.60		MHC	71.60	57	iP	28	45.00	0.5			
SVW	43.54	38	eP	25	27.10	0.7				eS	36	12.00		GDH	71.74	6	iP	28	40.00	-4.5X			
MDG	43.76	176	eP	25	30.00	1.5				eSS	40	12.00			1.0s	84.00nm			5.6mb				
WAB	43.93	179	eP	25	30.00	-0.2	POO	62.42	272	iPc	27	45.80	-0.8				iS	38	02.00				
AAI	44.25	201	ePc	25	34.20	1.7				iPcP	28	31.00		FFC	71.74	34	eP	28	44.00	-0.8			
	0.8s	115.00nm			5.7mb					iPP	30	11.50			1.1s	273.00nm			6.1mb				
IMA	44.73	31	eP	25	36.00	0.0				iS	36	14.00		ERE	71.77	307	Pc	28	45.00	-0.4			
SEM	44.87	306	Pc	25	35.90	-1.3				iPPS	36	37.50					iS	38	06.00				
			eS	32	09.40					iScS	37	30.00		LEN	71.84	308	Pc	28	46.00	0.2			
KDC	45.20	43	eP	25	39.30	-0.4	GBA	62.46	266	Pd	27	46.50	-0.3	UPP	71.99	334	iP	28	45.60	-0.6			
PKB	46.39	217	ePd	25	52.70	3.2X		0.9s	253.00nm			6.3mb			1.3s	1100.00nm			6.6mb				
PMR	46.66	38	eP	25	50.20	-0.9	SOD	63.92	337	eP	27	54.00	-1.7				i	28	53.80				
	1.1s	281.00nm			6.1mb		KAR	64.12	282	e(P)	27	56.00	-1.6				iS	38	04.10				
FBA	47.14	33	eP	25	54.80	-0.1	DAG	64.27	355	iPc	27	56.00	-1.9	JAS	72.04	56	iPc	28	47.70	0.8			
PMG	47.98	174	eP	26	02.00	0.0		1.0s	190.00nm			6.1mb		SHI	72.40	294	P	28	50.00	0.7			
	Z 20s	5.50um			5.5MszX					iS	36	33.00		NUE	72.50	133	eP	28	59.00	9.4X			

18d 18h

BMN		72.63	52	eP	28	51.00	0.5
SOC		72.66	312	Pc	28	49.40	-1.0
				iS	38	18.00	
APO		72.69	336	P	28	49.34	-1.0
YOU		72.74	175	P	28	49.90	-0.9
				i	28	56.90	
SLL		72.93	336	P	28	50.99	-0.7
PRI		72.93	57	iP	28	53.30	1.0
FRI		73.07	56	iP	28	53.70	0.8
HFS		73.08	336	eP	28	51.80	-0.8
		0.8s	172.00nm				6.0mb
	Z	18s	225.00um				7.5Msz
NB2		73.13	338	P	28	52.30	-0.6
		0.8s	126.00nm				5.9mb
MNV		73.22	54	iP	28	54.80	0.8
ADE		73.35	184	P	28	56.00	1.7
TBY		73.39	336	P	28	53.46	-0.9
CAN		73.82	175	P	28	57.30	0.2
EUR		73.96	52	iP	29	00.10	1.7
		0.3s	8.08nm				5.1mb X
WAM		74.68	175	P	28	05.60	-56.4X
KON		74.73	337	iP	29	01.50	-0.6
				S	38	40.00	
AKU		74.95	352	iPc	29	04.70	1.5
		1.3s	1900.00nm				6.9mb
	Z	21s	30.00um				6.6Msz
SIM		74.96	316	Pc	29	03.40	-0.3
				iS	38	39.40	
LD3		74.98	42	eP	29	03.00	-0.9
NWAO		75.08	202	P	29	04.00	-0.4
BER		75.34	340	eP	29	00.00	-5.6X
				i	29	06.00	
BDW		75.73	46	e(P)	29	08.00	-0.5
PAS		75.76	58	eP	29	09.00	0.5
		2.6s	1700.00nm				6.5mb
	Z	20s	36.00um				6.7Msz
	N	20s	34.00um				
	E	20s	32.00um				
				ePP	31	54.00	
				iS	38	46.00	
TOO		75.88	178	eP	29	13.00	4.1X
BHD		75.92	301	Pd	29	09.00	-0.4
				iS	38	52.00	
WAR		76.31	327	ePc	29	12.00	0.8
	Z	20s	140.00um				7.3Msz
				e	38	56.00	
KVT		76.34	312	iP	29	12.10	0.4
KIS		76.35	320	Pc	29	11.00	-0.6
				isP	29	13.50	
				iS	38	55.00	
LVV		76.73	324	Pc	29	13.00	-0.7
				iS	38	59.00	
REY		76.84	353	iP	29	17.30	3.4X
IAS		76.89	321	eP	29	15.00	0.5
				iPP	32	08.00	
				eS	39	00.00	
COP		76.99	334	iPd	29	15.00	0.1
		0.8s	328.00nm				6.4mb
				iPcP	29	25.00	
				iPP	32	08.00	
				iS	39	00.00	
				iSS	43	25.00	
KAS		77.47	313	iPd	29	19.70	1.7
BIR		77.49	320	eP	29	18.00	0.1
				ePP	32	15.00	
BAC		77.65	321	eP	29	21.00	2.3
CFR		77.97	319	eP	29	21.00	0.5
				ePP	32	18.00	
				eS	39	08.00	
FOC		78.11	320	eP	29	22.00	0.7
				iPP	32	19.00	
				eS	39	08.00	
ODB		78.12	320	eP	29	19.00	-2.3
				ePP	32	[illegible]	
VRI		78.22	320	eP	29	21.00	-0.9
				iPP	32	18.00	
				iS	39	08.00	
UZH		78.38	324	Pc	29	19.40	-3.3X
KRA		78.38	326	eP	29	22.60	-0.1
		1.5s	1220.00nm				6.7mb
				i	29	24.10	
				i	29	25.10	
				i	29	30.60	
				i	29	35.10	
BMR		78.51	323	eP	29	25.00	1.5
ZGT		78.55	314	eP	29	23.00	-0.8
GLA		78.63	57	eP	29	25.00	0.5
MGN		78.66	314	eP	29	26.00	1.5
NIE		78.68	326	iPc	29	24.80	0.4
		1.5s	567.00nm				6.3mb
				i	29	42.50	
ISR		78.82	320	eP	29	27.00	1.7
				ePP	32	30.00	
MLR		78.88	320	eP	29	26.00	0.3
				iPP	32	32.00	
				eS	39	25.00	
				eS	39	26.00	
SPC		78.89	326	iP	29	25.70	-0.1
	Z	14s	215.00um				7.6MszX
				i	29	32.20	
				e(PP)	32	26.00	
RBN		78.95	327	eP	29	26.00	0.2
				epP	29	27.00	3kmX
				eS	39	25.00	
CEI		78.99	324	eP	29	27.00	0.9
RAC		79.11	327	eP	29	28.00	1.3
				isP	29	30.00	
				epP	29	31.00	10kmX
MDB		79.19	322	eP	29	30.00	2.8
BRL		79.22	331	ePc	29	29.50	2.3
JOS		79.27	325	Pc	29	27.80	0.2
				iPcP	29	37.00	
				e	30	26.00	
				e	33	56.00	
BRN		79.30	331	iPc	29	28.50	0.9
KSP		79.32	329	iPc	29	28.00	0.2
		1.5s	940.00nm				6.5mb
BUC		79.56	319	eP	29	30.00	0.8
				iPP	32	35.00	
				iS	39	32.00	
HAM		79.64	334	iPc	29	31.90	2.4
PSZ		79.99	325	P	29	32.00	0.4
DEV		80.09	322	eP	29	33.00	1.0
				ePP	32	37.00	
				eS	39	36.00	
GOL		80.13	47	eP	29	34.50	1.8
GPA		80.15	314	eP	29	31.80	-0.7
GLD		80.18	47	eP	29	35.00	2.1
RAR		80.21	127	eP	29	40.00	7.1X
				pP	29	49.00	29kmX
				PP	32	29.00	
				(SKS)	39	39.00	
				LQ	50	08.00	
				LR	53	56.00	
BRG		80.23	330	iPc	29	32.60	-0.1
				i	29	42.00	
				PP	32	45.00	
				S	39	35.00	
				P'P'	56	36.00	
CLL		80.25	331	iPc	29	32.80	0.0
				i	29	41.00	
				i	29	46.00	
				i	30	06.00	
				S	39	36.00	
DRA		80.29	321	eP	29	34.00	0.9
ISK		80.31	315	eP	29	34.00	0.7
DMK		80.50	317	iP	29	34.60	0.3
CTT		80.60	316	eP	29	35.00	0.2
PRA		80.67	329	iP	29	34.00	-1.0
PRU		80.69	329	iPc	29	35.00	-0.1
SRO		80.77	326	eP	29	38.00	2.4
	Z	16s	658.00um				8.1MszX
				e(PP)	32	58.00	
BKT		80.90	315	eP	29	37.00	0.3
ALT		81.10	313	iP	29	38.70	1.1
TAU		81.28	177	eP	29	45.00	7.0X
VIE		81.29	327	Pc	29	39.00	0.7
				(SKS)	39	48.00	
				e	10	00.00	
WIT		81.29	335	eP	29	40.00	1.8
VKA		81.29	327	iPc	29	38.60	0.3
				i	29	48.00	
				i	32	23.00	
				PP	32	50.00	
				(SKS)	39	48.00	
MOX		81.31	331	iPd	29	39.00	0.6
		1.8s	877.00nm				6.4mb
	Z	15s	158.00um				7.5MszX
	N	17s	201.00um				
	E	18s	194.00um				
				iS	39	48.00	
SSR		81.39	322	eP	29	39.00	0.1
EDC		81.46	316	iP	29	39.50	0.1
HOF		81.48	331	iPc	29	39.40	0.1
		1.8s	1530.00nm				6.7mb
				iS	39	50.00	
DIM		81.49	318	eP	29	40.00	0.5
DST		81.56	315	eP	29	40.60	0.7
KHC		81.75	329	Pc	29	41.00	0.2
		0.9s	99.00nm				5.8mb
	Z	20s	222.00um				7.5Msz
	N	17s	96.60um				
	E	19s	155.00um				
				e	29	49.00	
				e	29	54.50	
				e	32	56.20	
				S	39	53.60	
LHC		81.75	32	eP	29	39.00	-1.7
		1.2s	253.00nm				6.1mb
KDZ		81.90	318	Pc	29	43.00	1.4
BCK		81.91	312	eP	29	41.00	-0.8
KRP		81.93	154	iP	29	44.10	2.6
				PcP	29	49.00	
				pP	29	55.00	35kmX
WTS		81.93	334	ePc	29	41.00	-0.5
				eSP	40	38.00	
EKA		81.98	341	P	29	43.00	1.2
		1.0s	81.40nm				5.7mb
ESK		82.01	341	eP	29	44.50	2.6
WET		82.02	329	iPc	29	42.10	0.0
BEO		82.04	323	P	29	41.50	-0.8
				iPP	32	52.20	
				eS	39	57.20	
SOF		82.19	320	Pc	29	45.00	1.8
GRF		82.23	331	iPc	29	43.80	0.6
	Z	16s	187.00um				7.5MszX
				i	29	46.10	
				e	29	48.70	
				e	29	56.70	
				e	30	07.90	
				eS	40	22.80	
GRFO		82.23	331	eP	29	43.60	0.4
KMR		82.37	328	iPc	29	44.20	0.2
				e	09	00.00	
MOA		82.48	328	iPc	29	43.30	-1.3
				i	30	20.00	
				i	41	04.00	
				e	09	27.00	
				e	11	11.00	
BNS		82.67	334	P	29	56.00	10.6X
ALQ		82.69	51	eP	29	46.00	-0.1
		1.0s	42.50nm				5.4mb
	Z	22s	40.70um				6.8Msz
ELL		82.79	312	iP	29	46.40	-0.1
TNS		82.83	332	eP	29	46.90	0.5
ZAG		83.33	326	e(P)	29	55.50	6.6X
				i	40	05.60	
MEM		83.37	334	Pc	29	50.60	1.6
GNZ		83.43	153	P	29	59.00	9.7X
FUR		83.44	330	iPc	29	49.80	0.3
		1.8s	1800.00nm				6.8mb
				eS	40	11.00	
VAY		83.58	319	P	29	51.40	1.1
SKO		83.67	320	Pc	29	51.40	0.6
				iS	40	13.30	
STU		83.75	331	ePd	29	51.50	0.5
		1.0s	160.00nm				6.0mb
UCC		83.76	335	Pd-	29	51.70	0.7
				PP	33	06.00	
				PPP	35	10.00	
				S	40	14.00	
LJU		83.79	327	iP	29	50.90	-0.4
				ePP	32	57.50	
				eS	40	10.00	
PMO		83.81	115	iP	29	59.60	7.9X
		1.5s	480.00nm				6.3mb
THE		83.88	318	P	29	52.00	0.2
COB		83.92	158	P	29	53.00	1.3
				pP	30	01.00	25kmX
TPT		83.99	114	iP	30	01.00	8.4X
		1.5s	500.00nm				6.3mb
WLF		84.11	333	ePc	29	55.00	2.2
				PP	33	12.00	
				S	40	21.00	
				SS	45	31.00	
VAH		84.15	115	iP	30	01.40	8.0X
		1.5s	250.00nm				6.1mb
GWF		84.16	332	P	29	54.20	1.1
BUH		84.19	332	eP	29	52.00	-1.3
DMU		84.20	343	eP	29	54.40	1.2
		1.9s	1100.00nm				6.6mb

AFR	84.20	118	iP	29 59.00	5.4X
	1.4s	410.00nm			6.3mb
DOU	84.28	334	Pd+	29 54.40	0.7
			PP	33 11.00	
			S	40 19.00	
RUV	84.30	114	iP	30 01.40	7.3X
	1.5s	425.00nm			6.3mb
MNG	84.34	156	iP	29 55.00	1.1
			i	30 58.90	
			pP	31 04.00	291kmX
PPT	84.36	118	iP	29 59.10	4.6X
	1.4s	320.00nm			6.2mb
TRI	84.38	327	ePc	29 52.50	-1.7
			i	29 54.10	
			iPP	33 11.00	
			e	40 10.00	
			iS	40 16.00	
			iSS	45 23.00	
			iSSS	48 50.00	
PAE	84.43	118	iP	30 00.00	5.3X
	1.4s	250.00nm			6.1mb
PPN	84.44	117	iP	30 00.00	5.2X
	1.4s	310.00nm			6.2mb
DDK	84.53	342	eP	29 55.70	0.9
	1.9s	840.00nm			6.5mb
OHR	84.63	320	iP	29 55.30	-0.4
DLE	84.67	342	eP	29 55.80	0.2
	1.9s	790.00nm			6.5mb
WEL	84.72	156	P	30 03.00	7.3X
			PP	33 23.00	
			(SKS)	40 04.00	
			SS	45 56.00	
			SSS	49 34.00	
			LQ	52 00.00	
			LR	57 00.00	
TVO	84.74	118	iP	30 04.90	8.5X
	1.4s	670.00nm			6.6mb
CDF	84.76	332	eP	29 56.70	0.5
	1.0s	78.20nm			5.8mb
DCN	84.80	343	eP	29 56.40	0.2
	1.9s	1130.00nm			6.7mb
ECH	84.97	332	P+	29 58.00	0.8
			ePP	33 10.00	
			ePPP	35 02.00	
			eS	40 25.00	
CTI	85.00	328	P	29 57.50	0.0
			i	30 10.00	
			e	33 41.00	
ZUL	85.12	331	P	29 57.30	-0.7
BAF	85.35	332	P	30 00.00	0.8
BSF	85.42	332	eP	29 59.30	-0.3
	1.0s	29.20nm			5.4mb
HAU	85.44	332	eP	29 59.60	0.0
	0.8s	47.50nm			5.7mb
BBS	85.47	331	P	29 59.20	-0.5
ECP	85.65	342	eP	29 59.50	-0.9
	2.0s	1260.00nm			6.8mb
SAL	85.82	329	P	30 02.00	0.6
			i	30 14.00	
RHP	85.97	161	P	30 04.00	2.0
NEC	86.06	331	P	30 02.00	-0.7
CMZ	86.19	159	iP	30 15.10	12.1X
PCN	86.62	329	P	30 08.00	2.6
			eS	40 48.00	
HLW	86.63	306	P	30 07.00	1.3
DIX	86.66	331	P	30 05.90	0.0
VAL	86.78	344	iP	30 05.00	-1.0
			iS	40 31.00	
ORO	86.82	330	P	30 06.50	0.0
			ePP	34 47.00	
			eS	40 42.00	
FOG	86.93	323	P	30 10.00	3.1X
VG1	86.95	329	P	30 09.50	2.5
LOR	86.96	333	iP	30 06.80	-0.2
PRT	86.98	327	P	30 17.00	9.9X
			ipP	30 41.00	89kmX
			iPP	33 03.50	
			iS	40 46.00	
FIR	87.00	327	P	30 07.00	-0.2
			iS	40 30.00	
PRG	87.05	326	P	30 00.00	-7.6X
			e	40 10.00	
FLN	87.09	337	iP	30 07.40	-0.2
	1.0s	57.60nm			5.8mb
SSC	87.13	336	iP	30 07.70	-0.1
	1.1s	55.40nm			5.7mb
LBF	87.16	333	iP	30 07.90	-0.1
AQU	87.20	325	P	30 10.00	1.7
			i	33 37.00	
SSF	87.26	334	iP	30 08.50	0.0
DUI	87.27	324	P	30 07.30	-1.3
GEN	87.44	329	P	30 17.50	8.2X
SMF	87.50	333	eP	30 09.80	0.2
MNS	87.50	325	P	30 11.50	1.9
			i	33 38.00	
SGG	87.52	324	P	30 11.30	1.4
			eS	33 37.00	
GRR	87.54	337	iP	30 10.00	0.2
AVF	87.54	333	eP	30 09.90	0.1
PNI	87.67	330	P	30 17.50	7.0X
SGO	87.74	323	P	30 11.00	0.2
WSC	87.87	324	P	30 11.90	0.4
ROI	87.90	321	P	30 09.00	-2.7
LPF	87.91	337	iP	30 12.00	0.5
RMP	87.95	325	P+	30 12.00	0.1
			ePP	33 40.50	
			iS	40 42.00	
			iPPS	42 10.00	
ROM	87.96	325	P	30 07.00	-4.9X
ROB	87.97	329	P	30 11.00	-1.0
TUL	88.15	44	iPd	30 15.40	2.5
	1.1s	109.00nm			6.0mb
	Z 19s	36.30um			6.8Msz
SGR	88.16	336	eP	30 13.70	1.0
STV	88.23	330	P	30 27.00	13.7X
MZF	88.31	334	iP	30 14.00	0.4
RLO	88.37	43	eP	30 14.50	0.5
			e	30 24.20	
TCF	88.37	334	iP	30 14.20	0.3
SSB	88.41	332	iPd	29 15.10	-59.0X
LSF	88.64	334	iP	30 15.20	0.1
MFF	88.89	335	iP	30 17.10	0.8
	1.0s	65.70nm			5.9mb
LMR	89.31	330	eP	30 18.20	-0.1
OTT	89.44	26	eP	30 18.00	-0.9
	1.0s	154.00nm			6.3mb
RJF	89.47	334	iP	30 19.40	0.3
	0.9s	38.80nm			5.7mb
ROG	89.48	331	ePd	30 19.90	0.8
			i	30 28.80	
UTO	89.58	33	ePd	30 33.50	13.9X
CAF	89.61	333	iP	30 20.20	0.4
JCT	89.82	50	iP	30 21.80	0.8
	Z 22s	53.70um			6.9Msz
			i	30 32.00	
			eS	41 00.00	
MNT	90.04	25	eP	30 21.50	-0.2
	1.0s	96.00nm			6.1mb
CIZ	90.05	152	eP	30 35.00	13.6X
LFF	90.06	334	iP	30 22.40	0.6
	0.8s	62.60nm			6.0mb
LPO	90.13	334	iP	30 22.30	0.[illegible]
	0.9s	28.80nm			5.6mb
ARO	90.55	285	iPc	30 25.90	1.[illegible]
			eS	34 03.20	
CLE	90.58	32	iPc	30 25.20	0.9
			(SKS)	40 58.00	
DVT	90.99	24	eP	30 26.30	0.2
HNME	91.16	21	eP	30 27.20	0.3
MLS	91.67	333	iPd	30 32.10	2.8
MIM	91.70	22	eP	30 29.90	0.6
	1.0s	48.50nm			5.9mb
EPF	91.87	333	iP	30 30.00	-0.3
	0.9s	24.40nm			5.6mb
IVT	91.99	25	eP	30 31.20	0.5
TRM	92.22	23	eP	30 32.30	0.5
LGR	93.34	335	iPd	30 40.50	3.5X
			iPP	34 15.00	
			iS	41 31.50	
EBR	93.75	332	eP	30 38.00	-0.9
			(PP)	34 34.00	
ORT	93.97	37	eP	30 40.00	0.0
BLA	94.63	33	eP	30 43.60	0.5
SET	95.78	327	P	30 58.00	9.6X
TOL	96.17	335	eP	30 56.00	5.9X
			iS	42 02.00	
			iSS	48 30.00	
			iSSS	52 50.00	
ALI	96.28	332	iPc	30 47.50	-3.0X
MTD	116.77	269	ePKP	36 01.00	-6.2X
			iPP	37 16.00	
KRI	118.34	271	ePKP	36 09.00	-1.2
			ipPKP	36 21.00	
			iPP	37 35.00	
BUL	120.98	268	PKP	36 14.80	-0.4
	Z 22s	34.80um			7.0Msz
	N 22s	20.70um			
	E 21s	20.10um			
			ipPKP	36 26.00	
			iPP	37 46.00	
FDF	122.34	28	PKP	36 23.80	6.1X
CAR	123.77	36	ePKP	36 33.00	12.3X
			iPP	38 04.00	
KUK	123.84	314	PKP	36 25.50	4.8X
MBO	123.95	336	PKP	36 20.30	-0.5
KIC	126.05	319	ePKP	36 22.40	-2.6X
			e	38 19.00	
NNA	135.89	64	ePKP	36 45.60	1.9
	1.0s	22.00nm			
			eS	39 18.00	
HUA	136.99	62	ePKP	36 46.90	0.6
ZOBO	144.89	59	PKP	36 59.40	-1.1
LPB	145.10	60	PKP	37 01.00	0.4
			e	27 00.00	
ANT	148.09	72	ePKP	37 08.00	3.3X
SOB3	151.01	8	ePKP	37 14.40	4.9X
			e	37 16.40	
			e	37 17.90	
LNV	152.11	91	ePKP	37 15.00	4.5X
PEL	152.39	89	PKP	37 17.50	6.4X
VCA	152.46	78	PKPd	37 22.00	10.5X
SAN	152.52	90	ePKP	37 19.00	7.8X
LPA	162.95	84	PKPc	37 22.00	-1.5
			e	38 20.00	
			PP	42 04.00	
			SKKS	48 40.00	
			SKSP	52 19.00	
			SS	02 24.00	
RDJ	163.46	20	PKP	37 23.00	-1.3

S.D. = 1.2 on 416 of 509 obs.

JAN 23, 1981 21h 13m 48.12± 0.08s
30.967 N ± 1.8km 101.134 E ± 1.6km
DEPTH = 10.0km (geophysicist)
5.8mb (71 obs.) 6.8Msz (9 obs.)
SICHUAN PROVINCE, CHINA (307)
About 150 people killed, 300 injured and extensive damage in the Dawu area.

CDU	2.49	96	Pd	14 28.60	-0.8
LZH	5.58	23	Pc	15 12.50	-0.9
			Pg	15 33.50	
KMI	5.99	166	Pc	15 19.50	0.3
			Pg	15 45.00	
			eSn	16 31.00	
GYA	6.61	131	Pd	15 28.00	0.1
			S	16 44.00	
XAN	7.26	63	eP	15 26.00	-10.8X
LSA	8.72	264	P	15 57.00	-0.7
			S	17 38.00	
SHL	9.77	239	iP	16 10.00	-1.8
			eS	18 00.00	
BGV	10.66	153	P	16 22.00	-1.9
WHN	11.38	89	P	16 29.20	-4.5X
			iS	18 31.00	
CHG	12.26	190	iPc	16 46.90	1.2
	1.8s	750.00nm			6.7mb
			eS	20 30.00	
GZH	13.41	123	Pd	16 56.00	-4.9X
			eS	19 18.00	
BDT	13.80	189	iPc	17 06.60	0.5
TIA	14.31	64	P	17 11.60	-1.2
			eS	19 48.00	
HKC	14.49	123	P	17 13.00	-2.2
			S	19 44.00	
NJ2	15.16	81	Pd	17 21.40	-2.5
			S	20 10.00	
			i	20 36.00	
BJI	15.21	49	P	17 26.00	1.5
			eS	20 18.00	
PCT	16.21	179	iP	17 38.00	0.4
	1.0s	98.30nm			4.9mb
QZH	16.54	107	Pd	17 38.00	-3.7X
			eS	20 40.00	
WMQ	16.66	324	Pd	17 41.50	-1.8
			eS	20 50.00	
SSE	17.19	84	Pd	17 48.00	-1.9
			S	20 58.00	
			i	21 15.00	
TCU	18.60	107	P	18 10.60	3.2X

TABLE 4-36

23d 21h

			S	23	42.70			DAV	32.98	131	eP	20	26.00	0.6				iS	30	36.00		
ANP	18.88	103	Pd	18	11.00	0.1			1.6s	1070.00nm				6.5mb	KNA	53.51	146	eP	23	09.00	-2.1	
			S	21	49.80						eS	25	48.00		PUL	54.24	324	Pc	23	16.00	0.1	
HWA	19.45	106	P	18	14.20	-3.6X		SAP	33.98	58	eP	20	30.00	-3.8X				ipP	23	27.00	37kmX	
			eS	22	05.50						eS	25	43.00					eS	30	54.00		
TTN	19.62	110	P	18	23.60	3.9X		KMU	35.10	59	eP	20	43.20	-0.3	MOM	54.88	118	eP	23	22.00	0.7	
HEN	19.68	112	eP	18	22.00	1.7		BKB	35.38	152	ePd	20	47.50	1.5	NAU	54.96	164	eP	23	21.00	-0.7	
			Sn	24	07.80			TGI	35.47	284	eP	20	46.00	-1.0	ANTO	55.19	299	iPd	24	28.00	64.7X	
NHA	20.10	156	P	18	23.00	-1.9		YSS	35.61	51	Pd	20	50.00	2.3	MGN	55.40	301	eP	23	26.90	2.1	
NDI	20.87	270	iPd	18	29.80	-3.0					epP	21	02.20	45kmX	KJF	55.41	329	Pc	23	24.00	-0.5	
	0.5s	352.00nm				6.0mb					eS	26	22.00					e	24	06.00		
	N 18s	45.40um						ASH	35.72	293	eP	20	49.00	0.2				eS	31	08.00		
	E 18s	29.20um						KHI	35.77	287	eP	20	49.20	-0.3				eSS	35	00.00		
			iS	22	16.00			YAK	36.17	22	Pc	20	52.30	0.0	MDG	55.80	122	eP	23	28.00	0.1	
UER	21.23	348	Pc	18	34.90	-1.3					iS	26	29.60		KEV	55.82	336	iP	23	26.80	-0.6	
IRK	21.42	5	ePc	18	36.00	-2.1		KAT	37.31	295	P	21	04.00	1.8		0.9s	2960.00nm				7.3mb X	
			eS	22	30.00						iS	26	54.00					ePP	25	36.00		
PRZ	21.48	309	eP	18	39.00	0.0		LEM	38.09	170	iPc	21	10.50	1.5				eS	31	14.00		
			eS	22	29.00				1.0s	20.00nm				4.8mb				eSS	35	02.00		
PIP	21.68	121	iPd	18	41.00	0.0					iS	27	06.00		SOD	55.88	333	P	23	25.40	-2.5	
	1.0s	442.00nm				5.8mb		SVE	38.11	325	Pc	21	08.20	-0.4	SMY	55.98	45	e(P)	23	29.50	0.8	
SZP	22.06	123	ePd	18	50.50	5.7X					isP	21	25.00		SUF	56.15	328	P	23	27.50	-2.4	
KSH	22.18	299	Pd	18	48.00	2.0					iS	27	03.00		KIS	56.47	309	eP	23	32.00	-0.3	
			iS	22	53.00			KUR	38.89	55	eP	21	17.00	1.6				isP	23	48.00		
TLG	22.48	310	P	18	49.90	0.9		ARU	38.97	323	eP	21	16.00	0.1				eS	31	18.00		
LAH	22.90	278	e(P)	18	49.00	-4.1X					esP	21	34.00		GPA	56.93	300	eP	23	34.90	-0.9	
BAG	22.90	125	ePc	18	55.00	1.6					eS	27	15.00		NUR	57.03	325	P	23	36.20	0.1	
	2.1s	3330.00nm				6.5mb		NRI	39.19	353	Pd	21	16.00	-1.5				i	23	41.60		
			iS	23	00.00						iS	27	11.00					eS	31	28.00		
CN2	23.08	49	P	18	56.00	1.2		TRT	40.00	162	iPd	21	24.90	0.1				eSS	35	14.00		
			iS	23	08.00				0.4s	128.00nm				5.9mb	ARO	57.03	264	eP	23	32.60	-4.3X	
MNL	23.29	283	eP	18	52.10	-4.8X		MKS	40.02	151	ePc	21	31.00	6.0X	IAS	57.31	309	eP	23	37.00	-1.3	
SNG	23.67	181	iPc	19	02.00	1.3		TEH	41.47	290	eP	21	45.00	8.0X	CFR	57.33	307	eP	23	37.00	-1.4	
	1.8s	96.00nm				5.1mb		SHI	41.72	281	P	21	38.00	-1.1	BIR	57.46	308	eP	22	46.00	-53.4X	
			eS	25	11.00						S	28	00.00		ISK	57.66	302	eP	23	40.00	-0.8	
NIL	23.69	284	eP	19	00.20	-0.6		AAI	43.06	138	ePc	21	51.70	1.8	IST	57.71	302	eP	23	40.00	-1.1	
FRU	24.18	307	Pc	19	06.40	0.9			0.7s	299.00nm				6.1mb	BAC	57.88	308	eP	23	40.00	-2.3	
			eS	23	14.00			TIK	43.40	12	ePd	21	50.00	-2.0	ODB	57.95	307	eP	23	44.00	1.2	
			isS	23	30.00						eS	28	17.00		ILT	58.03	26	Pd	23	43.00	-0.1	
MAN	24.46	127	iP	19	10.00	1.7					esS	28	38.00					ipP	23	52.30	31kmX	
OCP	24.47	127	P	19	14.00	5.6X		GUMO	43.69	103	eP	21	57.00	1.9				isP	24	02.00		
HYB	24.56	242	ePd	19	09.00	-0.3		GUA	43.76	103	e(P)	21	56.50	0.9				iS	31	40.00		
			e	19	19.50				0.9s	249.00nm				6.0mb	VRI	58.16	308	eP	23	47.00	2.7	
			eS	23	24.00						e(S)	28	25.00					iPP	26	00.00		
ELT	24.75	338	Pc	19	10.30	-0.5		MGD	43.81	33	Pc	21	56.40	0.9	KIR	58.25	334	P	23	42.00	-2.7	
SEM	24.91	327	eP	19	10.00	-2.4					ipP	22	07.00	37kmX				i	23	44.10		
			epP	19	20.10	37kmX					iS	28	22.00		DST	58.36	300	iP	23	45.40	-0.4	
			eS	23	36.30			MAK	43.86	301	Pd	22	04.00	7.8X	ISR	58.45	307	eP	23	47.00	0.6	
ANR	25.19	301	eP	19	15.00	-0.2		SKR	44.87	48	eP	22	08.00	3.8X	TRO	58.64	336	iP	23	47.10	-0.3	
PSH	25.20	285	eP	19	14.00	-1.4					eS	28	36.00		MLR	58.78	307	Pd	23	51.00	2.2	
WRS	25.21	285	iPc	19	14.20	-1.2		GRS	44.97	297	Pc	22	05.80	0.3	BUC	58.93	306	eP	23	56.00	6.3X	
KHO	25.26	293	Pd	19	15.90	-0.2					eS	28	45.60		LVV	59.05	313	eP	23	50.00	-0.5	
BSI	25.92	193	ePd	19	21.50	-0.7		GRO	45.12	302	Pc	22	06.00	-0.4				iS	31	59.00		
	1.0s	250.00nm				5.9mb					iS	28	37.00		HLW	59.25	288	iPc	23	50.00	-2.1	
GAR	26.40	296	eP	19	24.00	-2.6		SEY	45.47	30	ePd	22	09.00	0.2				iS	32	05.00		
			eS	24	03.60						S	28	46.70		CMP	59.45	307	ePd	23	56.00	2.7	
PPR	26.69	138	ePc	19	27.00	-2.3		KUPT	46.22	149	eP	22	15.80	0.6	MEK	59.62	162	eP	23	53.00	-1.7	
	1.1s	208.00nm				5.7mb			0.9s	243.00nm				6.2mb	PMG	59.64	125	eP	23	55.00	0.0	
KUL	26.71	294	eP	19	29.00	-0.4		ERE	46.29	298	Pd	22	17.00	1.2		Z 18s	34.40um				6.5Msz	
NVS	27.09	337	P	19	32.20	-0.4		PET	46.63	45	eP	22	20.00	1.9	MDB	59.68	308	eP	23	57.00	2.2	
			eS	24	11.00						eS	29	04.00		KBS	59.69	347	iP	23	54.40	-0.2	
KAAO	27.16	286	iP	19	32.20	-1.6		LEN	46.71	299	Pd	22	21.00	1.8	WRA	59.83	143	Pc	23	53.10	-3.1X	
VLA	27.23	55	P	19	33.20	-0.8		BKR	46.85	300	Pd	22	21.80	1.5		0.8s	176.00nm				6.2mb	
LGP	27.34	125	ePd	19	35.00	-0.2		PYA	46.98	303	Pc	22	21.20	0.1	WB2	59.84	143	P	23	52.60	-3.6X	
TSI	27.43	186	ePd	19	35.50	-0.5					iS	29	12.00					i	23	56.10		
	1.1s	970.00nm				6.4mb		BHD	47.61	288	Pd	22	27.00	0.9				eS	32	20.00		
DSH	27.54	295	Pd	19	37.80	0.8					eS	27	27.00					e	53	19.70		
POO	27.62	250	iPc	19	39.50	1.7					e	46	08.00		BMR	59.89	310	eP	23	57.00	0.8	
			iPPP	20	41.50			RAM	49.14	295	eP	22	41.00	2.9	RAB	59.90	116	Pd-	23	58.00	1.2	
			iS	24	20.50			SOC	49.43	303	eP	22	40.00	-0.1	PVL	59.91	305	Pc	23	57.00	0.6	
			iSS	25	28.50						iS	29	50.00		DIM	59.92	304	eP	24	00.00	3.5X	
GBA	27.82	237	Pc	19	38.90	-0.7		TBZ	49.74	299	iP	22	43.00	0.5	DRA	60.14	307	eP	23	57.00	-1.0	
	1.4s	59.60nm				5.2mb		JAY	50.27	124	e(P)	22	46.00	-0.9	KDZ	60.20	303	Pd	23	58.00	-0.4	
BOD	28.35	15	eP	19	44.00	0.0		MOS	50.29	319	Pc	22	47.00	0.5	UZH	60.43	312	Pc	24	00.00	0.1	
KGM	28.87	175	ePc	19	48.00	-1.0					isP	23	02.00					isP	24	16.00		
	1.3s	438.00nm				6.1mb					eS	30	00.00					iS	32	16.00		
SAM	29.04	297	eP	19	51.00	0.5		OBN	50.86	318	Pc	22	56.00	5.2X	UPP	60.59	325	iP	23	58.60	-2.3	
			eS	24	37.90						esP	23	12.00			1.3s	500.00nm				6.5mb	
			esS	24	52.70						iS	30	08.00					iS	32	17.00		
ABU	29.09	73	ePd	19	51.00	0.1		MTN	52.23	142	eP	23	00.00	-1.7	DEV	60.74	308	ePc	24	03.00	0.9	
PLP	29.60	127	ePd	19	55.00	-0.6		KVT	52.51	300	iP	23	04.80	1.2	SOF	61.33	305	eP	24	12.00	5.8X	
KAR	30.54	267	e(P)	20	05.00	1.0		KHE	52.55	352	ePc	23	04.00	0.6	NIE	61.49	313	iPc	24	08.00	0.8	
MAT	31.19	70	eP	20	07.00	-2.6					eS	30	32.00			0.8s	100.00nm				6.0mb	
	1.7s	431.00nm				6.1mb		SIM	53.23	305	eP	23	08.00	-0.8				ipP	24	20.60	44kmX	
			eS	25	16.00						esP	23	25.00		KRA	61.56	314	iPc	24	07.40	-0.2	
PPI	31.26	181	eP	20	09.00	-1.3					iS	30	41.00			0.7s	69.30nm				5.9mb	
PPH	32.81	129	eP	20	21.00	-2.9		APA	53.32	334	Pc	23	09.60	0.5		Z 25s	31.80um				6.4MszX	

	N 25s	51.80um				
	E 25s	25.60um				
			i	24	11.90	
			i	24	17.70	
			i	24	32.90	
			iS	32	33.00	
JOS	61.60	312	P	24	08.00	0.1
			i	24	12.00	
			i	25	07.00	
			ePP	26	32.00	
SPC	61.60	313	eP	24	08.40	0.3
AAE	61.75	263	eP	24	12.00	2.2
WBN	61.78	154	Pc	24	10.60	1.2
SSR	61.81	308	eP	24	08.00	-1.4
TIM	61.91	309	eP	24	04.00	-6.0X
KNT	62.10	303	e(P)	24	12.40	1.0
PSZ	62.17	311	P	24	13.20	1.3
THE	62.22	303	e(P)	24	20.00	7.9X
			e(S)	32	41.60	
APO	62.24	326	P	24	10.05	-2.0
VAY	62.29	303	eP	24	12.00	-0.6
HFS	62.45	326	P	24	12.00	-1.5
	0.5s	22.00nm				5.6mb
			e	53	00.00	
ESA	62.49	122	P	24	16.20	1.9
GRG	62.52	303	e(P)	24	11.60	-2.6
SLL	62.55	326	P	24	12.54	-1.6
BEO	62.70	308	P	24	14.20	-1.1
			eS	32	44.40	
ASP	62.76	146	eP	24	15.00	-1.0
SKO	62.89	304	iPc	24	16.00	-0.6
			iS	32	50.00	
			iSS	37	08.00	
SRO	63.22	311	eP	24	22.00	3.3X
	N 20s	58.40um				
	E 20s	43.20um				
			iS	32	58.00	
ISO	63.26	139	eP	24	19.00	-0.3
NB2	63.39	327	P	24	19.20	-0.6
	0.9s	18.90nm				5.3mb
OHR	63.62	304	eP	24	21.20	-0.3
TIR	64.21	304	P	24	23.80	-1.5
MUN	64.21	166	eP	24	24.00	-1.3
VIE	64.33	312	P	24	30.00	4.0X
			PP	26	51.00	
			i	28	36.00	
			e	33	25.00	
			e	33	43.00	
			e	54	00.00	
COP	64.34	321	eP	24	26.00	0.1
	0.7s	76.70nm				6.0mb
			iS	33	07.00	
VKA	64.36	312	iPd	24	26.20	0.0
			e	24	35.00	
			PP	26	51.00	
KLG	64.37	161	eP	24	25.00	-1.4
KON	64.57	326	iP	24	27.00	-0.4
BRL	64.86	318	eP	24	31.00	1.7
PRU	64.91	315	P	24	29.80	0.0
	Z 19s	56.30um				6.8Msz
	N 20s	43.50um				
	E 20s	45.90um				
			i	24	34.00	
			S	33	14.00	
PRA	64.95	315	iP	24	30.00	0.0
			e	24	35.00	
			S	33	14.00	
BRG	64.99	316	iPc	24	30.50	0.3
	1.6s	132.00nm				5.9mb
	N 24s	150.00um				
	E 24s	74.00um				
			eS	33	13.00	
CDY	65.08	29	eP	24	31.50	0.8
NWAO	65.35	165	eP	24	32.00	-0.6
CLL	65.41	316	iPc	24	32.80	-0.1
			i	24	37.00	
			pP	24	42.00	30kmX
			PPP	28	32.00	
			S	33	18.00	
			e	33	29.00	
			PS	33	43.00	
			SP	33	51.00	
			SS	37	24.00	
			SSS	40	37.00	
KHC	65.79	314	iP	24	35.70	0.2
			i	24	40.00	
			S	33	27.00	

			e	40	30.00	
MOA	65.79	312	iPc	24	35.40	-0.1
			PcP	25	06.00	
KMR	65.81	313	eP	24	38.00	2.5
WET	66.21	314	iPc	24	38.20	0.0
	1.2s	96.00nm				5.9mb
LJU	66.24	311	eP	24	38.50	0.1
DAG	66.45	347	iPc	24	38.00	-1.2
	1.1s	175.00nm				6.2mb
			iS	33	25.00	
			iSS	37	55.00	
MOX	66.46	316	iP	24	39.50	-0.2
	2.0s	177.00nm				5.9mb
	Z 15s	40.80um				6.8MszX
	N 24s	177.00um				
	E 24s	119.00um				
ALE	66.48	358	eP	24	40.00	0.6
	1.2s	222.00nm				6.2mb
BHG	66.71	313	iPc	24	41.80	0.4
CTA	66.74	134	P	24	40.70	-1.1
			iS	33	34.00	
TRI	66.87	310	eP	24	41.50	-0.8
			e	26	52.00	
			iS	33	36.00	
			iSS	38	00.00	
			i	40	32.00	
			i	44	54.00	
GRF	67.03	315	iPc	24	44.10	0.7
	1.1s	57.00nm				5.7mb
	Z 14s	35.00um				6.7MszX
SGO	67.71	305	P	24	48.00	0.3
DUI	67.89	306	P	24	49.20	0.4
IMA	67.94	25	eP	24	47.50	-1.5
OGA	68.20	312	iPc	24	50.60	-0.4
	1.0s	113.00nm				6.0mb
AQU	68.35	307	P-	24	52.50	0.6
OII	68.36	302	P	24	52.00	0.2
WIT	68.51	319	ePc	24	54.00	1.5
			e	25	04.50	
STU	68.61	315	ePc	24	52.70	-0.6
	1.0s	60.00nm				5.7mb
WTS	68.76	319	iPc	24	54.50	0.4
			e	25	04.00	
MNS	68.84	307	P+	24	54.20	-0.5
			P	14	08.00	
			eS	20	55.00	
NAI	68.86	255	eP	24	43.00	-12.5X
	2.0s	294.00nm				
BNS	68.95	317	eP	24	56.60	1.3
SAL	69.01	311	P	24	56.00	0.3
RMP	69.05	307	P	25	04.00	7.9X
			eS	34	04.00	
ROM	69.14	307	P	24	59.00	2.4
			S	34	07.00	
HNR	69.17	115	eP	24	57.00	-0.2
			eS	34	04.00	
BUH	69.24	315	ePc	24	57.00	-0.2
FIR	69.25	309	P	24	59.00	1.8
			iS	34	07.00	
PRT	69.32	309	P	25	01.00	3.3X
			ipP	25	24.00	89kmX
			iPP	28	09.50	
			iS	34	10.00	
SVW	69.39	30	eP	24	58.60	0.7
GWF	69.48	315	P	24	59.50	0.8
ZUL	69.62	314	P	24	58.50	-1.0
DBN	69.64	319	eP	24	58.00	-1.4
	Z 20s	20.00um				6.4Msz
			eS	34	13.00	
			e	35	15.00	
			e	36	32.00	
			eSS	38	43.00	
			eSSS	41	54.00	
MEM	69.78	317	P	25	07.00	6.7X
			pP	25	11.20	14kmX
PCN	69.79	311	P	25	00.00	-0.5
CDF	69.92	315	eP	25	01.30	-0.1
BVT	69.94	310	P	25	02.50	1.0
ECH	70.07	315	P	25	02.00	-0.3
			iS	34	12.00	
MBC	70.08	10	eP	25	01.00	-0.8
	0.8s	110.00nm				6.0mb
BBS	70.17	314	P	25	01.50	-1.4
BAF	70.33	314	P	25	03.50	-0.4
BSF	70.46	315	eP	25	04.30	-0.4
	1.0s	34.60nm				5.4mb
ORO	70.63	312	P	25	05.00	-0.9

UCC	70.65	318	Pd	25	06.90	1.2
			e	25	10.70	
			e	25	16.00	
			S	34	30.00	
COL	70.65	25	iP	25	04.80	-0.7
			iS	34	23.00	
FBA	70.65	25	eP	25	04.00	-1.5
	1.0s	125.00nm				6.0mb
HAU	70.66	315	eP	25	05.40	-0.4
DIX	70.81	313	P	25	07.00	-0.1
DOU	70.81	317	P	25	06.60	-0.1
			e	25	10.40	
			pP	25	17.40	35kmX
			S	34	34.00	
CVF	71.34	309	eP	25	09.20	-0.9
	0.8s	50.30nm				5.7mb
AVY	71.35	233	eP	25	09.60	-1.0
PNI	71.36	312	P	25	08.00	-2.2
STV	71.64	311	P	25	11.70	-0.2
PMR	71.88	28	eP	25	11.40	-1.5
	1.0s	125.00nm				6.0mb
	Z 20s	80.00um				7.0Msz
	N 20s	210.00um				
	E 20s	135.00um				
EGL	72.14	325	eP	25	16.00	1.5
	1.4s	126.00nm				5.8mb
NYA	72.17	274	P-	25	14.90	-0.6
ELO	72.32	326	ePc	25	17.20	1.6
	1.1s	82.00nm				5.7mb
EBL	72.33	325	ePc	25	17.20	1.5
	1.1s	88.00nm				5.8mb
KDC	72.40	33	eP	25	17.00	1.0
LOR	72.49	315	eP	25	16.10	-0.8
	1.0s	15.40nm				5.0mb
EAU	72.50	325	eP	25	18.10	1.4
	1.0s	147.00nm				6.0mb
LBF	72.55	315	eP	25	16.70	-0.5
	1.0s	25.90nm				5.3mb
LMR	72.57	310	eP	25	17.10	-0.2
LRG	72.61	310	eP	25	17.60	0.0
	1.4s	64.30nm				5.5mb
ESK	72.63	325	eP	25	21.00	3.5X
	0.6s	56.00nm				5.8mb
SMF	72.78	314	eP	25	18.40	-0.2
TOA	72.78	27	eP	25	20.00	1.6
SSF	72.80	315	eP	25	18.20	-0.4
	1.0s	29.90nm				5.3mb
CDR	72.90	311	Pc	25	19.50	0.2
SSB	72.97	313	eP	25	19.50	-0.2
AKU	73.00	338	iP	25	23.90	4.5X
	1.5s	1150.00nm				6.7mb
AVF	73.02	315	iP	25	19.70	-0.2
INK	73.13	18	eP	25	19.00	-1.1
	0.6s	92.00nm				6.0mb
ROG	73.19	311	eP	25	21.30	0.3
PYM	73.71	314	P	25	24.50	0.4
MZF	73.75	314	eP	25	24.50	0.3
	1.4s	57.20nm				5.4mb
TCF	73.95	315	eP	25	25.50	0.1
	1.0s	38.70nm				5.4mb
RES	74.09	4	eP	25	26.00	0.4
	1.0s	120.00nm				5.9mb
SSC	74.24	317	eP	25	27.10	0.2
FLN	74.37	318	eP	25	27.90	0.2
LSF	74.38	315	eP	25	27.80	-0.1
ADE	74.51	149	Pc	25	30.10	1.4
CAF	74.68	313	eP	25	30.10	0.4
GRR	74.77	317	eP	25	30.10	0.1
	0.8s	26.60nm				5.3mb
RJF	74.84	314	eP	25	31.30	0.8
	1.3s	43.80nm				5.3mb
NPA	75.01	242	eP	25	33.00	1.1
			e	26	28.00	
LPF	75.05	317	eP	25	32.20	0.6
	1.0s	20.00nm				5.1mb
SGR	75.14	317	eP	25	34.70	2.6
DDK	75.20	324	iPc	25	39.90	7.5X
	1.1s	65.00nm				5.6mb
DMU	75.21	324	iPc	25	40.30	7.8X
	1.0s	78.00nm				5.7mb
MFF	75.23	316	eP	25	32.70	0.0
	1.0s	28.20nm				5.3mb
DKM	75.23	324	iPc	25	40.10	7.5X
	1.1s	65.00nm				5.6mb
LPO	75.35	313	eP	25	33.80	0.4
DLE	75.35	324	iPc	25	40.80	7.5X
	1.2s	100.00nm				5.7mb

23d 21h

LFF	75.51	314	eP	25	35.10
	1.2s	30.20nm			5.2mb
DCN	75.70	324	iPc	25	43.20
	1.4s	170.00nm			5.9mb
MLS	76.26	312	iPd	25	38.50
SET	76.61	304	P	25	40.00
EPF	76.69	312	eP	25	41.30
EBR	77.70	310	eP	25	42.00
			eS	35	43.00
GDH	78.36	351	iPc	25	50.00
	0.8s	24.00nm			5.3mb
			iS	35	45.00
			iPS	36	10.00
			iSS	40	32.00
YOU	78.71	142	P	25	52.00
			e	26	31.40
LGR	78.79	313	eP	25	55.80
KOU	79.35	122	Pc	25	57.80
ALI	79.61	308	eP	25	57.00
			eS	36	07.00
TOO	79.80	146	eP	25	58.00
CAN	79.83	142	P	25	58.30
			e	26	36.40
TET	80.00	244	iPc	26	01.00
	1.0s	0.12nm			2.8mb X
			e	27	57.00
WAM	80.43	143	P	26	03.30
			e	26	33.10
TOL	81.15	311	eP	26	06.00
			iS	36	20.00
			iSS	41	36.00
			iSSS	44	58.00
BNG	81.38	270	iPc	26	07.40
	1.0s	23.70nm			5.2mb
BCAO	81.39	270	eP	26	06.00
MTD	81.92	245	P+	26	09.00
TEC	81.99	306	P	26	13.00
NOU	82.01	122	Pc	26	10.50
CRT	82.32	309	eP	26	27.00
YKA	82.55	16	P	26	12.50
YKC	82.59	16	eP	26	12.00
	1.1s	118.00nm			5.9mb
MAL	83.11	309	eP	26	24.00
			iPP	29	14.00
			iS	36	33.00
			iPS	37	22.00
			iSS	41	34.00
TAM	83.13	292	P	26	15.20
PTO	83.31	314	P	26	19.20
			eS	36	36.00
			SS	42	06.00
			SSS	48	16.00
KRI	83.49	246	eP	26	17.00
SFS	84.46	309	eP	26	31.00
			ePP	29	40.00
			eS	36	50.00
			ePS	38	12.00
			eSS	42	16.00
			e	48	30.00
TAU	84.86	148	eP	26	27.00
			eS	36	48.00
LIS	85.07	313	P	26	37.00
			LR	58	12.00
FRB	85.26	355	iPc	26	26.10
			pP	26	30.00
BUL	86.15	244	iPc	26	30.00
	1.1s	185.00nm			6.2mb
			ipP	26	43.00
			iS	37	07.00
CNG	87.05	237	eP	26	37.00
	1.0s	80.00nm			5.9mb
			e	27	13.00
PHC	88.07	28	eP	26	47.50
FCC	89.71	8	eP	26	48.00
KSR	90.68	240	eP	26	50.00
PRY	90.85	239	eP	26	54.00
EDM	90.96	20	ePd	26	55.00
PGC	91.29	28	eP	27	00.50
PNT	92.22	25	eP	27	04.00
	1.4s	175.00nm			6.2mb
FFC	92.36	13	eP	27	01.00
	1.1s	103.00nm			6.1mb
BLF	93.01	238	eP	27	04.50
SCH	93.94	353	eP	27	07.00
NEW	94.00	25	eP	27	13.00
	Z 20s	52.00um			7.0Msz
	N 20s	40.00um			

	E 20s	35.00um			
SES	94.13	20	eP	27	10.00
MSO	96.34	23	eP	27	23.00
	1.2s	26.00nm			5.6mb
WIN	96.48	248	iPc	27	22.00
	1.0s	19.00nm			5.6mb
HRY	97.15	22	eP	27	27.00
HRF	97.18	22	eP	27	27.50
CMT	97.29	22	eP	27	28.10
WDC	98.13	32	eP	27	30.00
			e	31	24.00
MIN	98.74	32	iP	27	32.50
			e	31	28.00
LD3	98.91	19	(P)	27	34.20
			PP	31	34.50
ORV	99.43	32	eP	27	35.00
			e	31	33.00
BRK	100.43	34	iPdiff	27	43.50
LHC	100.43	7	ePdiff	27	43.00
BKS	100.43	34	ePdiff	27	43.50
	Z 20s	15.00um			6.5Msz
	N 20s	11.00um			
	E 20s	19.00um			
JAS	101.22	32	ePdiff	27	49.00
GLA	107.82	31	(Pdiff	28	28.80
			e	32	24.40
			e	32	45.00
ALQ	109.48	24	e(Pdif	28	18.00
TUC	110.19	28	(PKP)	32	13.00
FVM	110.56	10	(PKP)	32	23.00
	Z 20s	38.90um			7.0Msz
RLO	111.52	14	ePKP	32	25.50
SBA	115.17	168	PKP	33	38.00
			PS	44	08.00
			SS	49	45.00
			e	51	12.00
			LR	03	39.00
JCT	115.73	20	ePKP	32	31.50
	0.8s	37.30nm			
	Z 20s	39.00um			7.0Msz
			i	33	42.00
VHO	129.09	22	iPKP	33	05.00
TRN	135.36	335	ePKP	33	13.80
	1.1s	139.00nm			
CAR	137.20	343	ePKP	33	15.40
	Z 20s	17.60um			6.8Msz
TOV	138.56	346	ePKP	33	18.80
SDV	139.60	347	ePKP	33	12.50
BOG	144.32	352	ePKP	33	25.50
BOCO	144.35	352	iPKP	33	26.20
AAS	146.10	197	ePKP	33	32.00
RDJ	147.33	275	PKP	33	29.00
			ePP	37	03.20
			ePPP	40	20.40
			ePS	47	46.80
PSO	147.99	357	ePKP	33	45.00
OAO	149.42	359	PKP	33	42.50
VAO	150.56	278	PKP	33	40.00
			e	33	44.20
			e	33	49.30
			e	33	55.80
			e	34	03.30
ZOBO	162.39	324	PKP	33	53.90
LPB	162.59	323	PKP	33	55.00
	1.0s	20.00nm			
			SS	56	08.00
ARE	164.07	333	PKP	33	55.00
			ePPS	52	44.00
			eSSS	05	56.00
			e	21	56.00

S.D. = 1.2 on 306 of 383 obs.

JUL 06, 1981 03h 08m 34.91± 0.29s
22.333 S ± 1.8km 171.670 E ± 1.7km
DEPTH = 123.1 ± 2.6 km
6.5mb (39 obs.)

LOYALTY ISLANDS REGION (189)

Felt (IV) at Noumea and (II) at Koumac, New Caledonia. Probable multiple event. Strong phase observed on many stations about 11 seconds after P.

NOU	4.83	269	P	09	46.50
PVC	5.55	325	Pc	09	58.10
NDF	7.09	51	eP	10	17.00
SVA	7.63	58	eP	10	24.70

			eS	10	57.00
VUN	7.70	57	ePc	10	21.60
	1.5s	1210.00nm			6.3mb
			eS	10	54.60
RAO	11.63	128	P	11	19.00
CRZ	12.09	176	eP	11	23.00
			S	13	36.00
GBZ	14.23	167	eP	11	51.00
KRP	15.89	169	iPd	12	13.90
			S	15	15.00
WTZ	16.26	165	eP	12	17.00
HNR	17.06	317	eP	12	27.00
GNZ	17.15	163	iPc	12	27.80
SVO	17.36	317	eP	12	33.00
AFI	17.81	65	P	12	35.00
			S	15	48.00
BRS	17.87	250	Pc	12	39.30
			eS	15	43.00
			e	16	08.00
			e	19	16.00
			e	21	02.00
			e	25	36.00
MNG	18.51	171	iPd	12	43.30
WEL	19.08	173	iPd	12	47.80
			pP	12	58.00
			S	16	33.00
			PcS	20	47.00
			ScS	24	16.00
SNZO	19.09	173	eP	12	48.20
COO	19.50	241	eP	12	56.00
RIV	21.37	233	Pd	13	07.10
			e	17	17.00
RHP	21.75	183	P	13	18.00
MSZ	22.49	187	iP	13	26.00
ESA	23.59	299	Pc	13	36.50
CAN	23.64	232	Pd	13	37.00
YOU	23.65	235	Pd	13	46.50
CTA	23.79	271	P	13	38.50
			iS	17	48.00
WAM	24.13	230	Pd	13	41.90
RAB	26.12	311	Pc	13	58.00
			iS	18	46.00
PMG	26.80	295	Pc+	14	05.10
TOO	27.18	230	Pd	14	09.00
			e	18	38.00
			e	24	50.00
KVG	28.23	311	Pc	14	16.20
STK	28.34	244	Pc	14	19.60
LML	28.39	299	eP	14	19.00
TAU	28.83	219	eP	14	24.00
			eS	18	44.00
BFD	29.15	233	eP	14	26.00
CBZ	30.23	183	P	14	38.00
			PcP	17	34.00
MDG	30.25	300	Pc	14	36.20
KKI	30.51	302	P	14	38.00
MOM	31.03	307	Pc	14	42.70
ADE	31.40	239	Pc	14	46.50
TBL	31.55	301	P	14	48.00
WAB	31.77	298	Pc	14	51.00
MCO	33.52	193	eP	15	06.00
ASP	34.73	260	Pc	15	14.30
WB2	34.83	267	Pc	15	14.20
			e	47	38.20
WRA	34.84	267	Pc	15	14.80
	0.8s	281.00nm			6.1mb
JAY	35.94	299	ePc	15	25.20
			eS	20	59.00
AFR	36.49	90	iP	14	32.60
	0.8s	120.00nm			
PAE	36.64	90	iP	14	33.50
	0.8s	75.00nm			
PPT	36.67	90	iP	14	34.20
	0.8s	145.00nm			
PPN	36.81	90	iP	14	35.10
	0.8s	70.00nm			
TVO	36.92	90	iP	14	35.90
	0.8s	95.00nm			
PMO	38.90	86	iP	15	48.80
	0.8s	30.00nm			5.1mb X
VAH	39.08	87	iP	15	50.30
	0.8s	45.00nm			5.3mb X
TPT	39.16	86	iP	15	51.20
	0.8s	60.00nm			5.4mb X
RUV	39.32	87	iP	15	52.60
	0.8s	80.00nm			5.6mb
MTN	39.67	277	Pc	15	55.50

06d 03h

KNA	40.98	271	Pd	16 07.00	-0.3
WBN	41.14	255	Pc	16 08.60	0.0
GUA	44.26	321	e(P)	16 34.40	0.4
	1.8s	6040.00nm			7.0mb
			ePP	16 45.60	
			eS	23 27.00	
GUMO	44.33	321	e(P)	16 34.00	-0.5
PJG	44.33	321	eP	16 34.30	-0.2
			ePP	16 46.30	
			*	21 21.80	
			e	22 11.50	
KLG	45.39	248	Pc	16 42.10	-0.7
AAI	46.00	287	ePd	16 47.30	-0.5
	1.7s	5510.00nm			7.0mb
KUPT	47.52	277	eP	17 01.50	1.7
	1.2s	6350.00nm			7.3mb
MBL	47.97	261	iPc	17 02.80	-0.4
	1.0s	780.00nm			6.4mb
MEK	48.26	254	iPc	17 04.40	-1.0
DRV	48.66	196	P-	17 06.60	-1.3
			ePP	19 00.80	
			eS	24 03.80	
			e	30 00.00	
NWAO	48.91	245	Pc	17 10.10	-0.2
RKT	48.99	102	iP	17 10.00	-1.0
	0.8s	35.00nm			5.2mb X
MUN	49.82	246	Pc	17 17.10	-0.2
MNI	51.41	291	eP	17 29.00	-0.5
			eS	24 42.20	
NAU	51.64	258	eP	17 31.00	-0.2
KIP	52.59	36	eP	17 39.00	0.9
			eS	25 00.00	
MKS	53.18	281	iPd	17 43.30	0.6
	1.0s	943.00nm			6.7mb
PPH	53.71	299	ePc	17 47.60	1.1
	0.8s	839.00nm			6.7mb
			i	17 58.00	
			eS	25 10.50	
DAV	53.78	298	Pc	17 46.00	-1.0
CGP	55.27	298	ePd	17 57.00	-0.8
	1.0s	628.00nm			6.5mb
SBA	55.62	181	iPd	17 59.80	0.2
			S	25 43.00	
PLP	56.60	301	eP	18 06.70	-0.7
TRT	58.50	275	iPd	18 21.30	0.5
			iS	21 54.50	
LGP	58.75	302	ePd	18 21.00	-1.4
	1.0s	763.00nm			6.7mb
KKM	61.14	291	iPc	18 39.10	0.2
	1.5s	3260.00nm			7.1mb
			i	20 11.90	
PGP	61.15	301	eP	18 39.90	1.1
OCP	61.70	302	P	18 41.00	-1.5
MAN	61.71	302	eP	18 43.00	0.4
			eS	19 11.50	
BAG	63.12	303	Pc	18 49.00	-3.1X
SZP	63.89	304	ePd	18 59.00	2.1
PIP	64.23	305	iPc	19 02.00	3.0X
KYS	64.56	332	eP	19 02.50	1.6
OYM	65.14	331	eP	19 03.70	-1.0
MIR	65.23	206	Pd	19 03.50	-1.3
			iS	27 39.00	
SRY	65.29	331	eP	19 04.60	-1.0
TSK	65.43	332	eP	19 05.40	-1.1
DDR	65.65	331	eP	19 07.40	-0.6
HEN	66.36	308	eP	19 15.00	2.3
ABU	66.40	328	ePc	19 12.00	-0.7
TTN	66.54	309	P	19 17.00	3.2X
MAT	66.54	331	iPc	19 12.00	-1.6
	1.6s	1730.00nm			6.7mb
			eS	27 56.00	
HWA	66.97	310	P	19 13.20	-3.3X
			eS	28 04.80	
SHK	67.61	326	iPc	19 19.40	-1.0
			Sn	28 10.70	
TATO	67.70	311	eP	19 20.00	-1.1
TCU	67.74	310	P	19 21.20	-0.2
SPA	67.80	180	iPc	19 20.40	-1.0
	1.0s	485.00nm			6.3mb
	Z 20s	82.60um			7.0Msz
ANP	67.81	311	P	19 21.00	-0.9
			S	27 50.00	
SHO	69.72	341	Pc	19 32.00	-1.1
QZH	69.73	309	Pc	19 33.00	-0.6
			iS	28 31.00	
KUR	70.65	342	Pc	19 39.00	0.2
			iS	28 49.00	
SAP	70.81	337	eP	19 41.00	1.2
			eS	28 50.00	
KGM	70.84	280	ePc	19 40.50	-0.1
	1.4s	4490.00nm			7.1mb
			i	19 53.00	
			e(S)	22 12.00	
			*	28 55.00	
HKC	71.45	305	P	19 45.00	1.0
			S	29 00.00	
SSE	71.87	316	iPc+	19 46.00	-0.3
	Z 22s	72.20um			6.9Msz
	N 23s	84.40um			
	E 22s	59.00um			
			PP	20 24.00	
			SP	20 38.00	
			PP	22 26.00	
			PPP	24 12.00	
			S	28 50.50	
			SKS	29 34.00	
			PS	29 42.00	
GZH	72.52	305	Pc	19 51.00	0.7
			iS	29 05.00	
PPI	72.53	277	eP	19 49.50	-1.1
YSS	73.81	340	Pc	19 58.00	0.7
			epP	20 05.00	22kmX
			iS	29 24.40	
SKR	73.97	350	Pc	19 57.60	-0.6
			eS	29 26.00	
IPM	73.98	282	ePc	19 58.40	-0.7
			i	20 34.20	
			i	20 53.50	
			i	21 03.20	
			i	21 29.50	
			i	22 42.30	
			i	23 13.40	
			i	41 25.80	
NJ2	74.00	315	Pc	19 58.00	-0.8
			iS	29 24.00	
			ScS	30 00.00	
ADK	74.60	7	eP	20 01.70	-0.1
VLA	74.71	331	Pc	20 00.40	-2.2
SMY	74.77	2	eP	20 02.60	-0.1
PSI	75.13	279	ePd	20 05.10	-0.5
	1.5s	1070.00nm			6.4mb
SNG	75.44	284	iPc	20 08.30	0.9
	1.2s	103.00nm			5.5mb
			eS	29 41.30	
TSI	75.78	280	ePd	20 07.00	-2.3
PET	75.88	352	Pc	20 08.00	-1.0
			S	29 44.00	
WHN	76.10	312	P	20 10.50	-0.3
			PP	22 58.00	
			S	29 44.00	
			SKS	30 08.00	
MAW	76.43	202	eP	20 12.00	-0.1
			e	29 50.00	
TIA	77.75	318	Pc	20 19.70	-0.1
			S	30 04.00	
PCT	78.02	291	eP	20 22.80	1.1
	0.8s	143.00nm			5.8mb
CN2	78.27	328	Pc	20 22.00	-0.5
GYA	79.44	304	P	20 30.20	0.8
			S	30 24.00	
			ScS	31 21.00	
BJI	80.76	320	Pc+	20 36.50	0.6
	Z 19s	44.20um			6.8Msz
	N 22s	57.00um			
			eS	30 37.00	
SDN	80.93	16	eP	20 36.40	0.0
BDT	81.24	293	eP	20 43.20	4.4X
	1.4s	1700.00nm			6.6mb
TIY	81.64	316	Pc	20 41.30	0.7
			S	30 46.00	
KMI	81.82	301	Pc	20 42.80	0.7
			PP	23 57.00	
			S	30 49.00	
XAN	81.86	312	Pc	20 42.30	0.4
			PP	23 55.00	
			S	30 48.50	
CHG	81.99	294	iPc	20 44.00	1.2
	1.4s	823.00nm			6.3mb
			eS	30 48.00	
AIA	82.86	159	iP	20 45.80	-0.6
			e(S)	30 57.00	
MGD	83.89	350	ePc	20 49.00	-2.6
			epP	21 01.00	39kmX
			iS	31 03.00	
CD2	83.91	307	P	20 52.60	0.2
			iS	31 09.00	
BTO	84.84	318	P	20 57.50	0.6
KDC	85.21	18	eP	20 58.60	0.4
NVL	86.08	187	Pd	21 05.00	2.5
			ipP	21 11.00	19kmX
SAO	86.17	48	iP	21 03.40	-0.1
			i	21 17.00	
			P'P'	47 17.00	
BKS	86.22	46	ePc	21 04.40	0.7
	1.3s	1400.00nm			6.7mb
	Z 20s	61.00um			7.0Msz
	N 20s	36.00um			
	E 20s	44.00um			
			eS	31 34.50	
			eSS	37 18.00	
			eSSS	41 08.40	
			e	47 24.00	
SEY	86.31	351	Pc	21 03.00	-0.5
			ipP	21 14.80	38kmX
			iS	32 08.00	
MHC	86.34	47	iP	21 05.00	0.5
			i	21 19.00	
			P'P'	47 13.00	
PRI	86.39	49	iP	21 05.50	0.8
			i	21 19.00	
			P'P'	47 15.00	
ARN	86.42	47	iP	21 07.00	2.3
			e	25 03.50	
LZH	86.47	311	Pc	21 06.30	1.1
			SKS	31 22.00	
			S	31 34.00	
FHC	86.65	43	iP	21 06.60	0.8
AAS	86.85	159	iP	21 07.70	1.3
	1.0s	720.00nm			6.6mb
			i	21 15.90	
PAS	87.16	51	iPc	21 09.00	0.7
	1.2s	900.00nm			6.6mb
	Z 20s	27.00um			6.7Msz
	N 20s	6.00um			
	E 20s	22.00um			
			ePP	21 22.00	
			ePP	24 36.00	
			eSKS	31 24.00	
			iS	31 45.00	
			eSS	32 08.00	
			e	47 05.00	
SVW	87.24	15	eP	21 08.10	-0.1
WDC	87.46	44	iPc	21 10.00	0.4
			i	21 21.00	
			P'P'	47 17.00	
JAS	87.47	47	iPc	21 09.90	0.2
			i	21 23.00	
			P'P'	47 14.00	
FRI	87.48	48	iP	21 09.90	0.1
			P'P'	47 14.00	
SNA	87.51	182	iPd	21 08.50	-0.9
	1.0s	2.60nm			4.2mb X
			e	31 32.00	
ORV	87.59	45	iPc	21 10.50	0.2
MIN	87.94	45	iP	21 11.90	-0.2
TTA	88.73	14	eP	21 15.70	0.4
GLA	89.10	54	iPc	21 18.30	0.6
			e	23 56.80	
COR	89.14	40	iPc	21 21.00	3.5X
MNV	89.27	48	iP	21 18.20	-0.3
PMR	89.35	18	eP	21 16.50	-1.6
EAM	89.57	9	eP	21 21.20	2.0
PHC	90.30	34	eP	21 24.00	1.3
	1.0s	821.00nm			6.8mb
			PP	21 37.00	
YAK	90.48	342	Pc	21 22.10	-1.2
			ipP	21 31.90	31kmX
TOA	90.61	18	eP	21 23.10	-0.9
AGT	90.63	295	P	21 20.00	-4.8X
			SKS	31 42.00	
SHW	90.64	39	eP	21 25.30	0.7
			e	21 57.40	
			ePP	25 07.50	
SIT	90.69	26	eP	21 25.10	0.8
SHL	90.79	297	P+	21 26.00	0.2
			SKS	31 54.00	
BMN	90.87	46	iP	21 27.00	1.2
	1.1s	307.00nm			6.4mb
			iPP	25 14.50	
			e	38 42.20	
GTA	90.89	313	Pc	21 26.40	0.5

06d 03h

		iSKS	31	47.00	
		iS	31	58.00	
PCA	90.97	22 eP	21	25.40	-0.4
LON	91.18	39 iPd	21	27.50	0.5
	1.2s	320.00nm			6.4mb
PGC	91.27	37 eP	21	26.60	-0.6
EUR	91.27	48 iP	21	27.80	0.0
	0.5s	41.20nm			5.9mb
TUC	91.83	56 iPd	21	32.30	1.9
	Z 18s	2.92um			5.8MszX
		ePP	25	12.00	
IMA	91.96	13 eP	21	21.20	-9.1X
COL	92.38	16 iP	21	30.30	-1.8
	Z 19s	56.30um			7.0Msz
		eS	32	24.00	
FBA	92.38	16 eP	21	30.00	-2.1
CAL	92.53	293 P	21	38.00	4.4X
		PP	25	30.00	
		SKS	32	00.00	
BOD	93.05	333 eP	21	34.00	-1.2
LSA	93.07	301 Pc	21	37.90	1.3
		SKS	32	02.90	
PNT	93.77	38 eP	21	39.00	0.2
	1.2s	413.00nm			6.6mb
		PP	21	05.90	
ZAK	94.12	323 Pc	21	40.50	0.2
TMU	94.53	135 eP	21	39.00	-3.7X
IRK	94.53	325 ePc	21	41.00	-1.2
		epP	21	53.00	39kmX
		esP	21	55.00	
		eS	32	43.00	
NEW	94.69	39 eP	21	43.00	-0.1
	Z 19s	30.00um			6.8Msz
	N 19s	13.00um			
	E 19s	18.00um			
CHA	95.19	297 P-	21	48.30	2.5
BDK	95.21	293 P	21	45.70	-0.2
		PP	25	30.70	
		SKS	32	10.00	
CON	95.27	133 P	22	49.00	62.9X
YKM	95.80	39 iP	21	51.40	3.1X
LDM	95.84	40 iP	21	51.70	3.3X
MSO	95.95	42 iPc	21	50.30	1.3
	1.5s	143.00nm			6.2mb
MOY	96.03	324 Pc	21	48.30	-0.7
RXF	96.15	39 iP	21	51.20	1.4
ALQ	96.19	55 eP	21	49.20	-1.3
	1.0s	66.30nm			6.1mb
	Z 18s	32.60um			6.8Msz
		e	22	03.00	
MDR	96.19	281 P	21	51.80	1.3
		SKS	32	07.80	
ANMO	96.19	55 eP	21	51.00	0.5
AMM	96.24	43 ePd	21	50.90	0.5
BUT	96.45	43 ePd	21	54.30	3.0X
BDW	97.05	47 iPc	21	55.20	1.0
	1.5s	162.00nm			6.3mb
		e	24	16.50	
		iPP	25	53.60	
YTC	97.23	45 (P)	21	57.50	2.5
TRD	97.51	276 P+	21	58.50	2.0
		SKS	32	32.50	
VHO	97.81	75 iP	22	02.00	4.0X
TIK	98.22	347 eP	21	57.00	-1.5
		epP	22	08.00	35kmX
		eS	33	12.00	
SAN	98.75	131 eP	22	04.00	2.0
INK	98.76	18 ePc	22	00.30	-0.7
	2.0s	724.00nm			6.9mb
		PP	22	36.00	
GOL	98.79	51 eP	22	02.70	0.6
	1.2s	52.60nm			6.0mb
	Z 20s	65.20um			7.1Msz
		e	22	14.40	
GBA	98.90	281 Pc	22	03.30	0.6
	2.0s	874.00nm			7.0mb
PEL	98.91	131 P+	22	03.00	0.3
GLD	98.92	51 eP	22	04.00	1.4
	Z 18s	20.90um			6.7Msz
		e	22	15.70	
EDM	99.07	36 eP	22	02.50	-0.3
SES	99.20	39 eP	22	03.00	-0.5
	1.4s	295.00nm			6.7mb
HYB	99.23	285 eP	22	04.00	-0.3
		ePP	26	04.00	
		eSKS	32	33.50	
		eS	33	30.00	

		ePS	35	12.00	
		eSS	40	28.00	
		eSSS	43	28.00	
JCT	99.88	61 eP	22	06.50	-0.2
	Z 20s	21.60um			6.7Msz
UER	99.84	322 Pc	22	05.00	-1.2
MDZ	100.33	132 e(Pdif	22	12.40	3.3X
TLL	100.47	129 Pdiff	22	13.00	2.9X
WMO	100.97	313 Pdiffc	22	11.50	-0.3
CFA	101.48	131 Pdiff	22	17.40	3.1X
YKA	102.36	27 Pdiff	22	24.50	7.2X
YKC	102.41	27 ePdiff	22	22.00	4.4X
	1.6s	113.00nm			6.4mb
SEH	102.47	290 Pdiff+	22	16.00	-2.7X
GOA	102.84	282 Pdiff	22	17.00	-3.5X
		SKS	32	46.00	
VCA	103.14	129 Pdiffd	22	27.00	5.1X
LPS	103.63	80 Pdiff	22	26.00	1.8
		PP	27	09.00	
		SKS	33	20.00	
		SKKS	34	12.00	
POO	103.82	285 Pdiff+	22	26.50	1.6
		SKS	32	59.00	
NDI	104.10	295 iPdiff	22	25.00	-0.9
	Z 21s	26.90um			6.8Msz
		iS	32	53.50	
		iSSS	41	35.00	
ANT	104.26	123 Pdiff	22	27.00	0.3
		pP	23	07.00	
		PP	26	45.00	
		i	27	15.00	
		PPP	29	09.00	
		SKS	32	43.00	
		SP	35	53.00	
		SSP	36	33.00	
		SS	41	33.00	
		SSS	45	37.00	
SIO	104.26	57 e(Pdif	22	28.90	2.5X
TUL	104.71	57 e(Pdif	22	32.50	4.1X
	1.5s	58.40nm			6.4mb
	Z 18s	17.40um			6.6Msz
BOM	104.87	285 Pdiff	22	34.00	4.6X
		SKS	33	04.00	
ELT	104.92	322 Pdiff	22	27.20	-1.7
CYA	105.04	130 Pdiff	22	32.60	2.5X
RLO	105.38	57 ePdiff	22	36.20	4.8X
BHK	105.57	298 Pdiff	22	30.00	-2.4X
		SKS	33	03.00	
FFC	105.88	37 ePdiff	22	37.00	3.9X
	1.1s	18.00nm			6.1mb
LPA	106.14	139 Pdiffd	22	35.00	0.2
LPA	106.14	139 PKP	26	47.00	0.7
		PP	27	00.00	
		PPP	29	17.00	
		SKS	33	14.00	
		SP	36	08.00	
MBC	106.70	13 ePdiff	22	40.00	3.7X
	0.9s	28.00nm			6.4mb
ARE	107.14	116 ePdiff	22	47.00	7.0X
		ePP	27	38.00	
		eSKS	33	08.00	
		ePS	36	20.00	
LAH	107.32	298 ePdiff	22	45.00	4.9X
SLA	107.42	127 Pdiffd	22	40.80	-0.1
MNL	108.22	299 ePdiff	22	43.70	-0.4
NRN	108.53	308 ePdiff	22	46.00	0.3
NIL	108.75	299 ePdiff	22	47.50	1.0
FVM	109.40	56 (Pdiff	22	52.30	3.1X
	Z 18s	6.50um			6.2Msz
		e	38	21.50	
LPB	109.90	118 Pdiff	22	57.00	4.6X
		SKS	33	21.00	
		PS	37	31.00	
		e	00	24.00	
ZOBO	110.01	118 Pdiff	22	58.60	5.5X
PSH	110.29	299 ePdiff	22	56.00	2.7X
WRS	110.35	299 ePdiff	22	51.50	-2.0
KHO	111.01	303 Pdiff	22	50.00	-6.6X
ANR	111.07	307 ePdiff	22	57.00	0.4
AVY	111.57	238 iPKPc	26	57.30	0.1
GAR	112.26	304 ePdiff	23	03.00	0.9
LHC	112.27	45 ePdiff	23	12.00	10.4X
RES	112.27	17 ePdiff	23	06.00	4.9X
	1.2s	32.00nm			
KAAO	112.35	299 e(Pdif	23	03.00	0.3
KBL	112.35	299 e(Pdif	23	04.10	1.4
KUL	112.48	303 ePdiff	23	03.00	0.1

QUE	113.12	294 ePdiff	23	07.00	0.8
DSH	113.36	304 Pdiffc	23	07.30	0.4
TAS	113.45	307 ePdiff	23	09.00	1.9
TKL	114.13	60 iPKPd	27	03.10	1.6
		eS	36	44.70	
		i	37	54.70	
BOG	114.18	95 ePdiff	23	16.00	4.6X
SAM	114.92	305 ePdiff	23	14.00	0.3
UTO	115.27	53 ePKPd	28	10.00	66.5X
GRM	115.43	212 ePdiff	23	15.00	-1.1
	1.1s	190.00nm			
	Z 18s	17.00um			6.7Msz
		i	27	04.50	
KHE	115.69	350 ePdiff	23	20.00	3.8X
FDA5	116.22	137 PKP	27	09.30	3.4X
		e	27	23.00	
		e	27	32.10	
CLE	116.77	54 iPKPd	27	08.30	2.0
		(SKS)	36	02.00	
CNG	117.74	221 ePKP	27	08.00	-0.6
		e	28	22.00	
		e	38	12.00	
UAV	118.33	92 ePKP	27	11.10	0.8
CER	118.67	206 e(PKP)	27	10.00	-0.2
SDV	118.90	92 iPKPc	27	13.60	2.2
	0.9s	139.00nm			
BLF	119.00	215 e(PKP)	27	11.00	-0.2
SVE	119.89	324 ePdiff	23	37.00	1.7
TOV	119.99	91 iPKPc	27	15.70	2.4
	1.0s	489.00nm			
PRY	120.02	217 e(PKP)	27	13.00	-0.2
		e	37	23.00	
TGI	120.14	296 ePKP	27	14.00	0.7
NPA	120.37	236 ePKP	27	17.00	3.1X
		e	28	21.00	
KHI	120.76	297 ePKP	27	14.00	-0.4
ARU	121.05	323 ePdiff	23	42.00	1.6
OTT	121.26	50 ePKP	27	14.00	-0.7
	0.9s	77.00nm			
		PP	27	56.00	
VAN	121.60	302 ePdiff	23	45.00	1.6
CIR	121.93	225 ePKP	27	17.00	0.2
		ipPKP	27	29.00	
		ePP	29	07.00	
		iPKKP	37	19.00	
KBS	122.60	355 iPKP	27	16.70	0.4
MNT	122.73	49 iPKPd	27	17.00	-0.5
		PP	28	00.50	
CAR	122.88	92 iPKPc	27	20.80	1.9
	0.7s	35.60nm			
CAR	122.88	92 ePdiff	24	02.00	12.3X
FRB	122.88	27 iPKPd	27	16.60	-0.6
	1.5s	271.00nm			
KAT	123.12	303 PKPc	27	19.50	1.0
CLK	123.20	232 PKP-	27	20.00	0.6
		ipPKP	27	31.00	
		iPP	29	11.00	
		iPKKP	37	14.00	
RDJ	123.65	141 Pdiff	23	57.00	4.2X
		i	24	34.00	
RDJ	123.65	141 ePKP	27	18.00	-2.0
		ePP	29	06.00	
SHD	124.00	300 iPKPc	27	22.00	1.4
BUL	124.47	223 ePKP	27	23.00	1.1
		ipPKP	27	34.00	
		iPP	29	20.00	
		iPKKP	37	08.00	
MTD	124.88	229 ePKP	27	23.00	0.3
		ipPKP	27	34.00	
		iPP	29	20.00	
		iPKKP	37	06.00	
CUM	125.42	93 ePKP	27	32.00	8.4X
BAO	125.84	131 e(PKP)	26	52.00	-32.6X
SJG	125.85	83 iPKP	27	24.00	-0.5
		iPcP	28	06.20	
		ePP	29	42.00	
MIM	125.97	58 iPKP	27	23.50	-0.4
		e	28	06.00	
		e	28	17.10	
SCH	126.05	38 ePKP	27	23.00	-0.8
	0.9s	78.00nm			
KRI	126.20	227 ePKP	27	24.00	-1.3
		ipPKP	27	35.00	
		iPP	29	29.00	
		iPKKP	37	00.00	
TEH	126.84	299 ePKP	27	29.00	2.9X
APA	127.92	341 ePdiff	24	13.00	2.4

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TRN	128.04	94	ePKP	27	27.10	-1.6	KIS	141.28	319	PKP	27	42.00	-10.5X		1.0s	241.00nm							
	1.0s	200.00nm					CFR	142.52	316	ePKP	27	51.00	-3.8X	ESK	146.84	355	iPKPc	28	03.00	1.3			
BAK	128.04	304	PKPc	27	32.00	4.1X	WAR	142.58	330	iPKP	27	49.00	-5.6X		1.5s	1000.00nm							
KEV	128.10	345	ePdiff	24	12.00	0.6				ePP	31	06.00		PRA	147.04	333	iPKPc	28	02.00	-0.2			
KEV	128.10	345	ePKP	27	28.00	0.8	GPA	142.80	308	ePKP	27	51.50	-4.0X				PP	31	25.00				
			i	27	42.20		ODB	142.95	318	ePKP	27	52.00	-3.5X				e	42	28.00				
			ePP	29	25.00					i	28	08.00		PRU	147.06	333	PKPc	28	02.00	-0.2			
MAK	129.71	308	ePdiff	24	22.00	2.8X	VRI	143.12	318	ePKP	27	52.00	-3.8X		Z 27s	127.00um				7.6MszX			
ATA	129.73	266	iPKP	27	34.80	2.9X	COP	143.29	340	iPKP	27	52.00	-3.7X		N 26s	82.20um							
OBO	129.82	267	iPKP	27	35.60	3.5X				i	28	43.00			E 26s	63.60um							
SOD	129.94	343	ePKP	27	28.00	-2.7X				iPP	31	06.00					PP	31	30.00				
			i	27	41.30		ALT	143.30	306	iPKPc	27	53.20	-3.3X				SKS	35	22.00				
			ePP	29	40.00		BCK	143.33	303	iPKP	27	53.30	-3.2X				e	39	00.00				
			eSKP	30	42.00		ISK	143.46	310	iPKP	27	53.80	-2.7X				PS	41	56.00				
			e	31	12.00		ISR	143.56	317	ePKP	27	53.00	-3.7X				SS	51	10.00				
TRO	129.95	348	ePKP	27	37.00	6.3X	BKT	143.70	308	iPKP	27	56.60	-0.6	ZST	147.17	328	iPKP	28	00.90	-1.6			
ARO	130.08	266	iPKP	27	35.70	3.0X	MLR	143.78	318	ePKP	27	55.00	-2.1		Z 22s	97.60um				7.5Msz			
NAI	130.14	248	ePKP	27	35.00	2.0				iPP	31	10.00					i	28	07.00				
	2.0s	1410.00nm								eSKKS	38	06.00					i	28	45.70				
KER	130.30	297	ePKP	27	32.00	-0.7				ePPS	43	40.00					i	31	50.00				
DAF	130.40	266	iPKP	27	36.60	3.4X	CTT	143.89	310	iPKP	27	54.60	-2.7X	SRS	147.27	312	PKP	28	02.20	-0.7			
KRV	130.74	305	ePKP	27	19.00	-14.1X	ELL	144.02	302	iPKP	27	55.00	-2.8X	OUR	147.33	311	PKP	28	02.80	-0.2			
GRS	130.82	303	PKPc	27	34.40	0.9	BMR	144.11	323	ePKPd	27	56.00	-1.4	BEO	147.45	320	PKP	28	02.20	-0.8			
TAB	130.90	302	ePKP	27	32.00	-1.7	DWK	144.12	311	iPKP	27	54.40	-3.2X				i	31	33.00				
			e	27	34.00		BUC	144.18	316	ePKP	27	56.00	-1.6	WIT	147.47	343	ePKP	28	04.50	1.7			
GRO	130.94	309	PKPc	27	34.00	0.6				ePP	31	10.50					i	28	09.50				
KIR	131.11	346	PKP	27	33.60	0.6	UZH	144.22	325	PKPc	27	58.00	0.4				e	28	18.00				
			iPP	29	54.30		DST	144.24	307	iPKP	27	55.60	-2.4	VIE	147.49	329	iPKP	28	02.50	-0.5			
MTA	131.79	307	ePKP	27	21.00	-14.0X	BUC1	144.25	316	ePKP	27	56.00	-1.7				i	28	08.00				
KJF	131.86	340	iPKP	27	31.70	-2.8X	MDB	144.41	320	ePKP	28	00.00	2.0				PP	31	29.00				
			i	27	36.90					i	28	14.00					e	35	22.00				
			ePP	29	52.00		CMP	144.44	318	ePKPc	27	53.00	-5.1X	VKA	147.50	329	ePKPc	28	01.00	-2.0			
			iPKS	31	00.20		KRA	144.53	328	iPKPc	27	55.60	-2.5				i	28	04.00				
			i	31	19.10			1.5s	1100.00nm								pPKP	28	18.00				
			PS	39	54.00					e	27	56.50					PP	31	30.00				
MOS	132.50	327	ePdiff	24	34.00	2.7X				i	28	04.50		PAIG	147.70	310	PKP	28	04.30	0.7			
BHD	132.55	295	PKP	27	28.00	-8.7X				i	28	08.20		MOX	147.72	336	iPKP	28	03.00	-0.3			
			ePP	27	39.50					i	31	36.00					i	28	18.00				
			ePPP	27	51.00					e	37	00.00					e	29	18.00				
			e	29	16.00		EDC	144.56	309	iPKP	27	56.70	-1.7				SKSP	42	00.00				
			i	30	09.00		CEI	144.68	323	ePKP	27	58.00	-0.4				e	23	18.00				
			iPcP	30	56.00					i	28	10.00		KNT	147.73	313	PKP	28	03.30	-0.3			
			iS	31	18.00		NIE	144.76	327	iPKPc	27	57.00	-1.5	HOF	147.89	335	ePKP	28	03.90	0.3			
			e	33	25.00					i	28	08.50		THE	147.91	312	PKP	28	03.70	-0.2			
			eLQ	35	49.00		MFT	144.83	310	iPKP	27	56.80	-2.2	HPK	148.02	353	PKP	28	04.00	0.4			
			eLR	36	46.00		GET	144.85	309	ePKP	27	56.00	-3.0X	KHC	148.12	332	PKP	28	04.00	0.0			
LEN	132.61	305	ePKP	27	36.00	-0.9	SPC	144.94	327	iPKP	27	57.70	-1.4		Z 32s	95.00um				7.4MszX			
PYA	132.72	310	ePdiff	24	32.00	-0.6		Z 19s	57.10um				7.4Msz		N 32s	71.00um							
BKR	132.74	307	ePKP	27	29.00	-8.1X				i	28	10.30			E 32s	74.00um							
AAE	132.96	261	ePKP	27	39.20	0.7				i	28	32.70					i	28	07.60				
OBN	133.28	326	ePdiff	24	36.00	1.3	DRA	145.22	318	ePKP	27	57.00	-2.4				e	31	50.50				
SUF	133.39	339	ePKP	27	24.00	-13.4X	JOS	145.23	326	PKPc	27	59.40	0.1				e	42	28.00				
PUL	133.77	334	ePdiff	24	38.00	1.2				e	28	00.00		GRG	148.15	313	e(PKP)	28	03.40	-1.0			
SOB3	134.61	131	PKP	27	38.00	-3.2X				e	29	05.00		WTS	148.16	342	ePKP	28	04.00	0.1			
			e	27	42.90					e	35	40.00					i	28	08.80				
SOB4	134.76	131	ePKP	27	37.80	-3.7X	PVL	145.34	315	PKPc	27	59.00	-0.6				e	28	19.00				
SOB2	134.96	131	PKP	27	34.60	-7.2X	DIM	145.53	313	ePKP	27	59.00	-1.0	ATH	148.40	307	iPKPc	28	01.60	-3.2X			
SOC	135.18	310	ePdiff	24	42.00	-1.5	IZM	145.62	306	iPKPc	27	59.90	-0.5	WET	148.40	333	ePKP	28	02.50	-2.0			
NUR	135.45	337	ePdiff	24	44.00	-0.2	BRL	145.63	336	ePKP	28	00.50	0.7	LIT	148.46	311	PKP	28	04.70	-0.2			
NUR	135.45	337	iPKP	27	40.90	-0.5	KSP	145.67	332	iPKPc	27	59.70	-0.3	DMU	148.46	358	ePKP	28	05.70	1.3			
			i	28	08.50		BRN	145.71	336	iPKPc	28	00.20	0.3		1.7s	980.00nm							
			ePP	30	08.00		EZN	145.85	309	iPKP	28	00.30	-0.3	BNG	148.48	240	iPKPd	28	05.00	-0.6			
			ePKS	31	10.00		KDZ	145.85	312	ePKP	28	00.00	-0.6		1.7s	81.80nm							
AKU	136.19	6	ePKP	27	43.70	1.1	PSZ	145.93	325	PKP	28	00.00	-0.6	DBN	148.51	344	ePKPc	28	06.00	1.6			
	1.0s	500.00nm					HAM	145.95	340	iPKPc	28	01.20	0.9		Z 20s	1.00um				5.6MszX			
			i	27	54.10		BRG	146.63	334	iPKPc	28	01.90	0.4				ePP	31	38.00				
			i	30	21.30					PP	31	21.00					ePPP	35	02.00				
STJ	136.55	44	ePKP	27	49.80	5.9X				e	44	36.00					S	42	20.00				
REY	137.24	9	ePKP	27	46.80	2.1	BUD	146.66	325	PKP	28	01.00	-0.7	GRF	148.64	335	iPKPc	28	02.90	-1.9			
			i	30	30.70					e	28	05.00			Z 22s	46.00um				7.2Msz			
UPP	138.27	341	PKP	27	43.70	-3.0X				e	28	14.00					e	28	09.40				
			i	28	04.30					ePP	31	28.00		KMR	148.67	330	iPKPc	28	03.80	-1.1			
			iPP	30	38.00		SSR	146.66	320	PKP	28	01.10	-0.7				i	28	16.00				
KVT	138.38	307	ePKP	27	38.00	-9.6X				iPP	31	20.00					i	28	25.00				
HFS	139.17	343	PKP	27	39.10	-9.3X	CLL	146.66	335	iPKPc	28	01.20	-0.4				i	31	41.00				
	0.8s	14.00nm								i	28	06.00					e	31	27.00				
			e	26	00.00					PKP	28	15.00		DDK	148.96	358	ePKP	28	04.80	-0.3			
UNJ	139.75	204	PKP	27	45.00	-5.4X				i	28	27.00			1.6s	500.00nm							
KAS	139.98	308	ePKP	27	44.30	-6.2X				i	28	37.00		BNS	148.97	341	iPKPc	28	05.80	0.6			
			i	27	52.30					PP	31	34.00					iPP	31	44.00				
			i	28	04.80					PKS	31	48.00					iSS	42	17.50				
KON	140.61	346	ePKP	27	43.00	-7.9X				(SKS)	35	20.00		DCN	149.03	359	ePKP	28	06.50	1.2			
			i	27	48.00		SRO	146.81	326	ePKP	28	01.00	-0.9		1.6s	1040.00nm							
BER	140.78	349	iPKP	27	46.70	-4.5X				i	28	22.00		DLE	149.07	358	ePKP	28	06.40	1.1			
ANTO	141.08	306	ePKPd	27	47.00	-5.6X				i	28	51.00			1.7s	620.00nm							
	1.5s	56.80nm								e	29	30.00		DKM	149.09	358	ePKP	28	06.50	1.1			
MGN	141.25	308	iPKP	27	49.60	-3.2X	EKA	146.82	355	PKPd	28	04.30	2.6X		1.6s	370.00nm							

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TTG	149.49	318	PKP	27	05.00	-61.3X	PNI	154.07	334	PKP	28	11.50	-1.4		31	363	S ± 3.4km	110.694	W ± 3.2km				
			S	34	25.00		ROB	154.34	332	PKP	28	12.00	-1.4		DEPTH =	10.0km	(geophysicist)						
BHG	149.49	331	ePKP	28	06.00	-0.2	MZF	154.58	342	iPKPc	28	14.10	0.6		6.1mb (	10 obs.)	6.3Msz (	13 obs.)					
ENN	149.51	342	ePKP	28	06.50	0.5	TCF	154.61	343	iPKPc	28	13.60	0.0	EASTER ISLAND REGION									(685)
			i	28	12.10		STV	154.62	333	PKP	28	13.30	-0.4										
BGG	149.58	340	ePKP	28	06.50	0.3	LSF	154.83	344	iPKPc	28	13.90	0.1	SAN	33.72	104	P	41	00.50	-0.2			
TIR	149.66	315	PKPc	27	58.60	-8.0X	PYM	154.87	341	PKP	28	13.50	-0.5	PEL	33.74	104	Pc	41	00.30	-0.6			
FUR	149.83	333	iPKPc	28	06.50	-0.2	MFF	154.90	347	iPKPc	28	14.20	0.3				eS	46	32.00				
			i	28	13.10		CVF	155.24	329	iPKPc	28	14.40	-0.1				eScP	47	16.00				
			i	28	20.50		GIB	155.26	314	PKP	28	12.50	-2.3				eSS	48	45.00				
			e	42	45.00					e	36	21.00					eSSS	49	24.00				
UCC	149.91	344	PKPc	28	07.40	0.8	LRG	155.66	333	iPKPc	28	15.30	0.2				e	49	50.00				
			e	28	12.50		LMR	155.70	333	iPKPc	28	15.20	0.1	TLL	34.17	99	P	41	05.50	0.6			
			e	28	23.90		RJF	155.71	343	iPKPc	28	15.50	0.4	CEN	35.61	102	eP	41	17.00	0.0			
			PP	31	54.00		CDR	155.72	335	PKP	28	15.00	-0.2	CFA	36.04	102	Pc	41	20.00	-0.5			
			PPP	35	10.00		ROG	155.89	335	ePKP	28	15.50	0.1				PP	42	52.00				
			e	42	20.00					i	28	40.00					S	47	12.00				
LJU	149.92	327	iPKP	28	07.30	0.4				i	28	43.30		PT03	36.34	70	eP	41	25.50	2.3			
			i	28	17.00					i	29	34.00		ANT	36.37	88	P	41	22.00	-1.3			
			i	28	43.10					iPP	32	23.60					PP	42	48.00				
STU	150.16	336	ePKPc	28	07.00	-0.1				i	32	32.00					S	46	40.00				
	2.0s		235.00nm				CAF	155.90	342	iPKPc	28	16.00	0.6	NNA	36.68	66	iP	41	26.00	0.0			
ECP	150.17	358	iPKPc	28	08.40	1.4	LFF	156.26	344	iPKPc	28	16.20	0.4				iS	42	56.00				
	2.0s		2760.00nm				LPO	156.37	343	iPKPc	28	16.50	0.5	VCA	36.71	97	P	41	27.50	1.1			
VAL	150.41	2	PKPd+	28	06.00	-1.3	MLS	157.99	341	ePKP	28	19.50	1.4	HUA	37.84	67	P	41	30.40	3.2X			
			PP	31	48.00		EPF	158.13	343	iPKPc	28	18.50	0.2				eP	43	25.40				
			(SKS)	39	22.00		ESCF	158.33	344	ePKP	28	18.80	0.3				eP	47	43.90				
			SS	45	07.00		STS	159.50	0	ePKP	28	22.00	2.3				eS	50	09.90				
			LQ	52	48.00		EBR	160.12	340	ePKP	28	21.00	0.6	ARE	38.56	77	eP	41	44.00	1.8			
			LR	57	13.00					PP	32	39.00					ePP	43	20.00				
DOU	150.48	343	ePKPc	28	08.00	0.5	TOL	162.13	349	iPKPc	28	23.00	0.5				eS	47	48.00				
			e	28	13.00					e	28	34.00					eLQ	50	36.00				
			e	28	27.00					iPKKP	29	11.50					eLR	52	06.00				
			PKS	31	49.00					i	29	21.50		TCA	39.14	102	Pc	41	46.00	-0.7			
			PP	32	01.00					iPKS	31	50.00		LPB	41.37	79	Pc	42	06.00	0.5			
			PPP	35	14.00					iPP	32	53.00					S	48	26.00				
			e	42	25.00					iSKS	35	20.00		ZOBO	41.47	79	P	42	07.00	0.5			
TRI	150.54	328	ePKP	28	07.00	-0.8				iPPP	36	20.00		BAA	43.52	109	Pc	42	24.40	2.0			
			i	31	56.00					iSKKS	39	02.00					S	48	52.00				
			SKKS	39	22.00					SKKKS	41	18.00					LR	55	11.00				
			PS	42	22.00					eSKSP	43	06.00		LPA	43.91	109	Pc	42	26.00	1.3			
			(SS)	47	22.00					i	44	00.00					PP	44	08.00				
			SSS	52	58.00					iPPS	46	55.00					iS	49	00.00				
GWF	150.55	338	PKP	28	07.00	-0.7				iSS	53	55.00					SS	52	04.00				
BUH	150.59	337	ePKPc	28	07.70	-0.2				iSSS	59	50.00		AIA	44.11	154	eP	42	31.00	4.2X			
CDF	151.15	338	ePKP	28	08.40	-0.4	KUK	162.20	207	PKPc	28	24.70	1.4				e(S)	53	09.00				
ECH	151.36	338	PKP+	28	08.00	-1.0	LIS	163.65	2	PKP	28	25.90	1.9	RAR	44.84	271	eP	42	27.00	-6.3X			
			e	28	22.00					i	28	36.40					S	49	22.00				
			ePP	31	55.00					LR	31	12.00					LQ	53	00.00				
			eSKS	35	30.00					iPP	33	08.80					LR	54	00.00				
ZUL	151.53	336	PKP	28	07.50	-1.8				SKS	35	16.00		PSO	45.29	51	eP	42	38.00	0.7			
BRT	151.62	317	PKP	28	12.00	2.5X				SPP	46	45.00		CHN	49.24	49	eP	43	09.50	1.5			
BAF	151.74	338	PKP	28	08.80	-0.9				SS	53	57.00		BOCO	49.98	51	iP	43	16.30	2.3			
BSF	151.81	338	iPKPc	28	09.50	-0.3	KIC	163.75	193	ePKP	28	25.90	1.1	BOG	50.00	51	eP	43	16.50	2.4			
HAU	151.81	339	iPKPc	28	09.70	0.0				i	28	37.40					eS	50	38.00				
BBS	151.87	337	PKP	28	09.00	-0.8				i	29	30.00		FUO	50.84	51	eP	43	27.50	7.0X			
NEC	152.46	337	PKP	28	10.00	-0.6	ALM	164.66	342	iPKPd	28	25.20	0.2	IIT	51.49	15	eP	43	27.10	1.9			
ORI	152.55	316	PKP	28	11.00	0.1		2.0s		3.40nm				FDA5	51.66	100	P	43	28.10	1.7			
			ePP	32	01.00		Z	23s		0.60um				TAC	51.67	14	eP	43	41.00	14.4X			
FLN	152.90	349	iPKPc	28	11.20	0.1	N	27s		2.10um				IIC	52.01	14	eP	43	30.40	1.2			
SSC	153.00	348	iPKPc	28	11.40	0.1	E	20s		4.00um				UAV	54.88	50	eP	43	51.00	0.6			
AOU	153.01	323	PKP	28	11.00	-0.6				iPP	33	11.90		SDV	55.42	51	eP	43	53.90	-0.4			
			iPP	32	02.00					iS	39	28.40		LGN	55.95	49	eP	44	02.00	4.2X			
			e	35	43.00		MAL	165.26	348	iPKPc	28	25.00	-0.5	VAO	56.62	98	P	44	04.40	1.6			
PRG	153.06	325	PKP	28	22.00	10.4X				i	28	38.00					epP	44	07.00	9kmX			
			e	37	26.00					iPP	33	16.00		TOV	56.64	51	eP	44	04.50	1.5			
DIX	153.07	335	PKP	28	10.50	-1.3				iSKKS	39	54.00		SBA	58.02	194	P	44	15.00	3.1X			
FIR	153.17	327	PKP-	28	12.00	0.4				iSKSP	43	46.00					S	52	22.00				
			i	28	38.00		SFS	165.80	353	iPKP	28	14.00	-11.9X				LQ	59	00.00				
PRT	153.17	328	PKP	28	13.00	1.4				e	29	28.00					LR	01	00.00				
			ipPKP	28	22.50					ePKS	31	20.00		AFI	58.31	273	eP	44	15.00	0.2			
			i	28	53.00					iSKS	33	10.00					S	52	28.00				
			iSKS	36	05.00		TAM	167.19	275	PKP	28	31.00	3.3X				SSS	59	02.00				
LOR	153.25	341	iPKPc	28	11.90	0.2	MBO	168.63	133	iPKP	28	34.70	6.2X				LR	01	00.00				
GRR	153.32	349	iPKPc	28	12.00	0.3				i	28	41.80		MNG	58.85	239	iP	44	19.60	1.5			
GRC	153.45	342	iPKPc	28	11.20	-0.7				i	29	07.90		BAO	58.89	90	eP	44	17.00	-1.9			
			i	28	19.40					e	29	10.50		CAR	59.09	52	eP	44	18.10	-2.1			
			i	28	34.60					i	29	51.50			0.6s		29.38nm			5.6mb			
			iPP	32	11.80					e	30	11.70		WEL	59.18	238	iP	44	21.70	1.4			
SIE	153.47	327	PKP	28	24.60	12.5X	KDS	169.61	159	iPKP	28	28.60	-0.5				S	52	24.00				
LBF	153.47	341	iPKPc	28	12.10	0.0	TEN	170.60	48	iPKP	28	33.70	4.4X				SS	56	30.00				
SSF	153.54	342	iPKPc	28	12.20	0.1				i	29	51.30					LQ	58	00.00				
LPF	153.70	349	iPKPc	28	12.50	0.3				iPP	33	41.70					LR	00	00.00				
GEN	153.78	331	PKP	28	11.50	-1.0				ePPP	37	41.70		KRP	59.60	242	P	44	23.00	-0.2			
SMF	153.82	341	iPKPc	28	12.40	-0.1		S.D. = 1.1		on 402 of 515 obs.				RDJ	59.83	100	Pc	44	26.40	1.3			
AVF	153.83	342	iPKPc	28	12.40	-0.1											iPP	46	43.20				
SGR	153.99	349	ePKP	28	14.00	1.4	OCT 28, 1981 04h 34m 17.03± 0.11s										iPPP	48	10.40				

			iS	52 44.40		
RHP	61.68	234	P	44 37.00	-0.5	
JCT	62.37	11	iP	44 42.00	-0.1	
	Z 18s	44.70um				6.7Msz
			iS	53 18.00		
BRZ	62.89	231	eP	44 48.00	2.6	
MSZ	62.98	232	P	44 44.00	-2.0	
TRN	63.04	57	eP	44 45.60	-1.2	
TUC	63.33	360	ePc	44 48.20	-0.3	
			i	44 54.30		
SVM	63.83	2	eP	44 52.90	0.0	
GLA	64.19	356	iPc	44 54.20	0.1	
			i	45 00.20		
LUB	65.13	8	eP	45 05.00	4.7X	
SJG	65.18	47	eP	45 02.00	1.2	
			iS	53 45.00		
PAS	65.54	353	eP	45 02.00	-0.7	
	2.2s	900.00nm				6.6mb
	Z 20s	28.00um				6.5Msz
	N 20s	36.00um				
	E 20s	13.00um				
			e	46 10.00		
			ePP	47 19.00		
			iS	53 58.00		
			e	14 07.00		
SDW	65.89	354	eP	45 05.50	0.4	
			i	45 10.10		
ALQ	66.07	4	ePc	45 05.80	-0.6	
	1.7s	135.00nm				5.9mb
	Z 20s	22.50um				6.4Msz
			eS	54 00.00		
PRI	67.80	351	iPc	45 17.50	0.3	
GCA	67.98	359	(P)	45 19.80	1.4	
MSA	68.01	4	eP	45 18.80	-0.1	
			e	45 25.30		
YMT1	68.08	355	eP	45 19.80	0.8	
			i	45 25.90		
RMU	68.08	360	eP	45 20.00	1.0	
TUL	68.37	13	iPc-	45 20.20	-0.5	
	1.0s	318.00nm				6.5mb
	Z 18s	9.14um				6.1Msz
			eS	54 22.00		
			eSS	58 43.50		
SAO	68.52	351	iP	45 20.40	-1.2	
FRI	68.52	352	iPc	45 20.90	-0.6	
DRV	68.75	204	P	45 23.60	0.9	
RLO	68.76	14	iP	45 22.50	-0.6	
ARN	69.10	351	iPd	45 31.50	6.3X	
MHC	69.11	351	iP	45 25.90	0.5	
TNP	69.35	355	iPc	45 27.80	0.8	
			i	45 33.60		
JAS	69.55	352	iPc	45 28.00	0.1	
BKS	69.72	350	e(P)	45 30.00	1.1	
	Z 20s	37.00um				6.6Msz
	N 20s	34.00um				
	E 20s	7.00um				
			eS	54 49.60		
MNV	69.78	354	iPc	45 30.00	0.5	
NVL	70.35	163	Pc	45 30.00	-2.5	
			iS	54 48.00		
PRM	70.36	25	eP	45 33.10	0.1	
EUR	70.66	356	iP	45 34.70	-0.2	
	0.5s	16.00nm				5.4mb
GOL	70.87	4	eP	45 36.50	0.2	
	Z 18s	0.30um				4.6MszX
			e	45 42.20		
DON	70.90	17	eP	45 33.20	-2.9	
			i	45 39.50		
GLD	70.93	4	eP	45 37.20	0.7	
	Z 18s	0.80um				5.0MszX
JSC	70.94	26	eP	45 36.30	-0.1	
ELC	71.18	18	eP	45 36.90	-0.9	
DUG	71.22	358	ePc	45 38.20	0.0	
			i	45 44.00		
ORV	71.27	351	iPc	45 38.20	-0.1	
ORT	71.36	22	e(P)	45 38.80	-0.2	
FVM	71.54	17	iPc	45 39.60	-0.4	
	Z 18s	5.80um				5.9Msz
			i	45 46.00		
BMN	71.69	355	iPc	45 41.40	0.4	
	2.3s	971.00nm				6.5mb
			e	45 46.30		
MIN	72.06	351	iP	45 42.30	-0.9	
WDC	72.42	351	iPc	45 44.70	-0.5	
NOU	72.90	254	Pc	45 50.30	1.8	
BDW	73.78	1	iPc	45 52.20	-1.1	
	1.3s	160.00nm				5.9mb
			e	45 58.20		
BLA	73.86	25	iPd	45 54.40	0.7	
			iS	55 34.00		
IMW	74.90	360	ePc	45 59.40	-0.5	
			e	46 05.30		
KOU	75.50	255	Pc	46 04.80	1.3	
COR	76.45	351	iPd	46 15.00	6.7X	
UTO	76.85	21	ePd	46 20.50	9.9X	
BUT	77.03	359	ePc	46 12.10	0.4	
TAU	77.24	227	eP	46 17.00	4.0X	
CLE	77.32	22	iPd	46 19.20	5.9X	
			S	56 10.00		
MSO	77.88	358	eP	46 16.30	0.0	
	2.0s	588.00nm				6.3mb
NEW	79.47	356	ePc	46 25.20	0.3	
LDM	79.56	357	iPc	46 25.70	0.3	
WAM	79.67	234	P	46 28.20	1.8	
			e	46 45.10		
RXF	79.96	357	iPc	46 28.00	0.4	
YKM	79.99	357	iPc	46 27.90	0.1	
CAN	80.04	235	P	46 21.30	-7.2X	
COO	80.39	240	eP	46 31.00	0.5	
PNT	80.71	354	eP	46 32.00	0.5	
	1.2s	131.00nm				5.8mb
MIR	80.73	189	Pc	46 29.00	-2.4	
YOU	81.02	235	P	46 36.20	2.5	
MAW	81.22	178	eP	46 33.00	-1.0	
TOO	81.25	231	eP	46 31.00	-3.8X	
			e	46 37.00		
BRS	81.34	243	P	46 35.50	0.0	
			eSKS	56 50.00		
BFD	83.42	230	eP	46 44.00	-2.0	
EDM	84.26	358	iPc	46 49.50	-0.2	
	1.2s	364.00nm				6.5mb
MIM	85.12	28	(P)	46 53.60	-0.6	
ADE	87.23	230	Pc	47 07.00	1.9	
CTA	90.27	246	P	47 21.90	2.2	
			iSKS	57 53.00		
			iS	58 20.00		
			iSP	59 22.00		
			i	04 19.00		
RAB	93.92	263	eP	47 35.00	-1.6	
ISO	95.08	242	eP	47 40.00	-1.9	
PMG	95.37	256	eP	47 36.00	-7.2X	
ASP	97.45	237	eP	47 54.00	1.4	
PMR	97.72	343	eP	47 52.40	-0.3	
			i	47 58.00		
WB2	99.43	240	P	48 01.70	0.1	
			e	49 55.00		
			e	52 13.70		
			e	52 51.50		
WRA	99.44	240	Pc	48 01.80	0.1	
	0.7s	3.00nm				5.0mb X
INK	100.80	352	ePdiff	48 05.00	-1.5	
SKR	115.46	315	ePKP	52 40.00	-20.4X	
BUL	115.60	137	ePKP	54 04.00	62.2X	
SEY	120.50	328	ePKP	52 59.00	-10.6X	
TOL	121.29	60	ePKP	53 17.00	5.1X	
			iSS	11 33.00		
LPF	125.24	51	ePKP	53 18.00	-1.2	
GRR	125.42	50	ePKP	53 18.30	-1.2	
MFF	125.60	53	ePKP	53 18.60	-1.4	
FLN	125.72	50	ePKP	53 18.90	-1.2	
LFF	125.91	55	ePKP	53 19.70	-0.9	
SSC	125.94	50	ePKP	53 18.90	-1.7	
LPO	126.18	55	ePKP	53 20.10	-1.1	
RJF	126.52	54	ePKP	53 20.60	-1.2	
LSF	126.69	53	ePKP	53 20.90	-1.2	
CAF	126.84	55	ePKP	53 21.60	-0.9	
TCF	127.16	53	ePKP	53 21.70	-1.3	
MZF	127.40	53	ePKP	53 22.30	-1.2	
AVF	128.01	53	ePKP	53 23.50	-1.1	
SSF	128.15	52	ePKP	53 23.20	-1.6	
SMF	128.32	53	ePKP	53 24.00	-1.2	
LOR	128.41	52	ePKP	53 24.00	-1.4	
LBF	128.46	53	ePKP	53 24.40	-1.1	
TIK	128.95	339	ePKP	53 22.00	-3.6X	
UCC	129.06	48	PKPc	53 28.20	1.8	
			e	53 31.80		
DOU	129.16	49	PKP	53 28.40	1.0	
			e	53 37.70		
			SS	13 05.00		
ENN	130.05	48	ePKP	53 32.50	4.2X	
			e	53 39.50		
			e	55 50.00		
MEM	130.10	48	PKP	53 34.60	6.2X	
HAU	130.16	52	ePKP	53 27.70	-1.0	
KHE	130.43	2	ePKPc	53 30.00	1.7	
BSF	130.44	52	ePKP	53 28.20	-1.1	
PNI	130.53	56	PKP	53 18.50	-11.0X	
BAF	130.58	52	PKP	53 31.00	1.4	
WTS	130.64	46	PKPc	53 32.00	2.7X	
ECH	130.72	51	PKP	53 31.80	2.1	
			eSS	13 20.00		
DIX	130.72	54	PKP	53 29.00	-1.1	
YAK	130.99	327	ePKP	53 30.00	0.3	
GWF	131.07	50	PKP	53 32.40	2.0	
CVF	131.36	59	ePKP	53 19.00	-12.1X	
BUH	131.45	51	ePKP	53 32.20	1.1	
ZUL	131.50	52	PKP	53 29.00	-2.3	
TNS	131.65	49	ePKP	53 30.50	-1.0	
GRF	133.43	49	ePKP	53 33.90	-0.9	
			e	53 39.20		
MOX	133.67	48	ePKP	53 38.00	2.8X	
	2.4s	240.00nm				
	Z 18s	6.40um				6.4Msz
	N 16s	2.00um				
	E 18s	3.40um				
COP	133.76	41	ePKP	53 40.00	4.9X	
			iSS	14 00.00		
CLL	134.51	47	ePKP	53 38.00	1.2	
			PP	56 24.00		
			e	57 19.00		
			e	57 26.00		
KHC	134.99	50	PKP	53 36.60	-1.2	
	Z 20s	3.60um				6.1Msz
	N 20s	2.70um				
	E 20s	2.60um				
			e	53 48.00		
BRG	135.13	48	ePKP	53 39.70	1.7	
	Z 18s	4.80um				6.3Msz
	N 18s	2.60um				
	E 18s	4.00um				
			e	53 28.70		
NAI	135.22	130	ePKP	53 25.50	-14.0X	
	0.8s	18.70nm				
KMR	135.38	52	(PKP)	53 44.00	5.5X	
UME	135.46	29	PKP	53 35.90	-2.2	
PRA	135.50	49	iPKP	53 42.00	3.3X	
PRU	135.57	49	ePKP	53 40.00	1.2	
	Z 19s	6.80um				6.4Msz
	N 21s	3.60um				
	E 19s	4.10um				
			e	56 16.00		
			e	57 00.00		
UPP	135.63	34	PKP	53 40.20	1.6	
SOD	136.13	22	ePKP	53 43.00	3.6X	
KSP	136.62	48	ePKP	53 37.00	-3.8X	
	1.3s	50.00nm				
			e	56 28.00		
PPI	136.76	229	e(PKP)	53 43.90	1.8	
VIE	136.87	51	ePKP	53 40.00	-1.3	
TUP	137.53	318	ePKP	53 39.00	-3.4X	
SRO	138.20	52	ePKP	53 40.30	-3.6X	
	Z 18s	3.20um				6.1Msz
KJF	138.22	26	ePKP	53 39.00	-4.4X	
			ePKS	57 22.00		
			eSS	14 40.00		
SUF	138.35	28	PKP	53 43.20	-0.5	
NUR	138.69	32	iPKP	53 45.10	0.8	
	0.8s	10.10nm				
	Z 21s	7.10um				6.4Msz
BUD	138.71	52	PKP	53 38.00	-6.8X	
			e	53 49.00		
			e	53 54.00		
			ePP	56 37.00		
KRA	139.03	48	ePKP	53 48.00	2.7X	
	Z 20s	3.80um				6.1Msz
			e	15 06.00		
NIE	139.36	49	ePKP	53 47.00	1.0	
JOS	139.62	51	PKP	53 42.00	-4.4X	
			e	53 51.00		
			e	54 33.00		
			ePP	56 48.00		
BOD	139.62	324	ePKP	53 38.00	-8.1X	
PSI	140.09	230	ePKPd	53 41.20	-7.1X	
			e(S)	56 37.00		
OHR	140.13	62	e(PKP)	53 39.30	-8.4X	
			i	53 50.90		
TIA	140.28	290	ePKP	53 50.90	2.9X	
			PP	56 48.90		
NRI	140.44	350	ePKP	53 46.00	-1.2	
SKO	140.62	61	ePKP	53 52.50	4.1X	
UZH	140.76	50	PKPc	53 46.50	-1.9	

28d 04h

TSI	140.93	231	e(PKP)	53	50.50	0.7	TAS	170.06	0	ePKP	54	23.00	-2.7X				S	13	23.00				
BJI	141.34	296	PKP	53	53.00	3.3X	KSH	170.26	328	ePKP	54	28.00	2.0	TIY	20.27	340	iPd	09	58.00	0.4			
VAY	141.47	62	e(PKP)	53	35.20	-14.8X				ePP	59	39.00					SP	10	09.00				
			i	53	51.60		ANR	170.31	346	ePKP	54	28.00	2.1				S	13	40.00				
WHN	141.57	281	ePKP	53	50.00	-0.5	SAM	171.50	12	PKPc	54	30.20	3.7X	BKB	20.29	192	iPc	10	00.00	2.1			
LVV	141.68	48	ePKP	54	02.00	11.9X	BHJ	171.91	182	PKP	54	31.00	4.0X		1.0s	721.00nm				6.0mb			
SNG	142.14	237	ePKP	53	56.40	4.5X				PP	59	37.00		ABU	20.71	36	Pd	10	04.00	1.9			
ATH	142.23	67	ePKP	53	48.00	-3.4X	DDI	172.41	264	PKP	54	26.70	-0.4	CHG	20.72	274	iPd	10	02.00	-0.3			
CMP	143.06	55	ePKP	53	52.00	-0.7	NDI	172.64	251	PKP	54	25.00	-2.2		1.0s	150.00nm				5.3mb			
KDZ	143.55	61	ePKP	53	52.00	-1.6				iPP	59	44.00					eS	13	56.00				
MLR	143.67	55	ePKP	53	51.00	-2.8X				iSS	21	02.00		CHTO	20.72	274	iPd	10	02.00	-0.3			
			e	57	18.00		DSH	172.81	3	ePKP	54	26.00	-1.1		1.0s	150.00nm				5.3mb			
DIM	143.71	60	ePKP	53	52.00	-1.8	KKR	173.37	260	PKP	54	37.00	9.6X				eS	13	56.00				
AAE	143.95	121	ePKP	53	53.00	-2.4	KUL	173.47	357	ePKP	54	30.00	2.7X	BDT	20.81	269	iPd	10	04.20	1.0			
TIY	144.15	292	ePKP	53	51.00	-3.8X	KHD	173.62	344	ePKP	54	27.00	-0.6		0.8s	607.00nm				6.0mb			
VRI	144.16	54	ePKPc	54	06.00	11.5X	NIL	175.96	305	ePKP	54	26.30	-1.8	BJI	21.59	350	Pd	10	11.00	0.0			
IAS	144.49	51	ePKP	53	59.00	4.0X	KAAO	176.82	4	ePKP	55	29.00	60.5X				PP	10	18.00				
BIR	144.71	53	ePKP	53	55.00	-0.4	KBL	176.82	4	ePKP	55	30.30	61.8X				eS	14	04.00				
IZM	145.04	67	PKP	53	55.00	-1.3	PSH	176.87	326	ePKP	54	27.20	-1.1	LZH	22.86	322	iPd	10	25.30	1.5			
KIS	145.40	51	PKPc	53	55.00	-1.5	QUE	177.66	119	ePKP	54	29.00	0.3				SP	10	33.00				
EDC	145.50	63	PKP	53	55.00	-1.9		S.D. = 1.3		on 198 of 284 obs.				OYM	23.27	41	eP	10	26.30	-1.3			
YER	145.80	69	PKP	53	56.00	-1.6								MAT	23.41	37	P-	10	28.00	-0.9			
CTT	145.89	62	PKP	53	59.30	1.7		NOV 22, 1981 15h 05m 22.28± 0.24s									S	14	42.00				
BTO	146.04	297	ePKP	53	57.00	-1.0		18.750 N ± 1.2km 120.829 E ± 1.6km						SRY	23.41	40	eP	10	27.30	-1.6			
PCT	146.27	248	ePKP	53	58.00	0.0		DEPTH = 36.0 ± 2.1 km						AAI	23.45	161	ePc	10	29.50	0.1			
	1.5s	90.10nm						6.3mb (61 obs.) 6.5Msz (17 obs.)						DDR	23.62	40	eP	10	29.00	-2.0			
BKT	146.48	64	PKP	53	59.30	0.5		LUZON, PHILIPPINE ISLANDS (249)						GUMO	23.64	99	eP	10	31.00	-0.3			
XAN	146.70	285	ePKP	53	58.80	-0.3		Damage in the Bacarra-Laoag						BTO	23.67	339	iPd	10	32.50	0.9			
MOS	147.02	33	ePKP	54	00.00	1.1		area. Felt throughout western						GUA	23.70	99	eP	10	31.70	-0.1			
GYA	147.04	271	PKP	54	02.00	2.0		Luzon.							1.3s	600.00nm				6.0mb			
IRK	147.05	320	ePKP	53	59.00	-0.1								Z	18s	57.70um				6.1Msz			
ELL	147.08	70	PKP	54	01.40	1.6	SZP	1.24	197	iPd	05	43.50	0.1				e(S)	15	08.00				
GPA	147.37	63	PKP	54	00.20	0.2	BAG	2.34	186	Pc	05	59.00	-0.3	KYS	23.69	42	eP	10	31.10	-0.6			
MLW	147.39	83	ePKPd	54	05.00	4.7X	HEN	3.23	359	eP	06	13.00	1.1	MKS	23.85	183	iPc	10	33.70	0.3			
BCK	147.65	68	PKP	54	02.20	1.6				S	06	47.00			0.8s	418.00nm				6.0mb			
ZAK	148.43	317	PKPc	54	03.10	1.8	TTN	3.99	4	P	06	25.00	2.4	KGM	23.90	228	ePd	10	34.50	0.7			
ARO	148.59	123	iPKP	54	04.60	1.9	TWM1	4.07	355	eP	06	23.00	-0.8		1.5s	1690.00nm				6.3mb			
MGN	148.74	62	PKP	54	09.00	6.8X	MAN	4.07	177	iPd	06	25.60	1.8	IPM	23.93	236	iPd	10	33.20	-0.9			
MOY	149.15	320	ePKP	53	59.00	-3.4X				iS	07	13.00			1.3s	1190.00nm				6.3mb			
BDT	149.62	249	iPKPc	54	05.60	1.5	QCP	4.10	177	P	06	24.00	-0.2				i	11	02.20				
	1.0s	185.00nm					TWK	4.50	356	eP	06	29.00	-0.9				e	14	16.90				
KAS	149.87	61	PKP	54	07.00	3.1X	HWA	5.24	8	P	06	41.60	1.3	TSK	24.32	40	eP	10	33.00	-4.7X			
CHG	150.49	252	iPKPc	54	07.80	2.4				iS	07	43.10		KLM	24.38	233	ePd	10	39.40	0.9			
	1.6s	121.00nm					TWD	5.35	8	eP	06	41.00	-0.8		1.2s	1350.00nm				6.4mb			
			eS	04	51.00		TCU	5.37	359	P	06	41.90	-0.3	CN2	25.28	8	iPd	10	45.80	-1.0			
CHTO	150.49	252	ePKP	54	07.20	1.8				S	08	03.00					SP	10	56.00				
CD2	150.58	278	PKP	54	07.00	1.7	TWO	5.50	0	iPd	06	43.00	-0.9				S	15	09.00				
LZH	150.99	289	ePKP	54	09.00	3.1X	TWC	5.91	9	eP	06	49.00	-0.7	TSI	27.53	238	ePd	11	00.00	1.3			
KVT	151.62	61	PKP	54	10.20	3.7X	LGP	6.22	153	ePc	06	54.50	0.3	PSI	26.73	236	ePd	10	59.50	-1.0			
UER	152.80	325	PKPd	54	06.10	-1.7				iS	08	07.00			1.2s	516.00nm				6.0mb			
SVE	153.85	11	ePKPc	54	12.00	2.9X	TATO	6.22	6	eP	06	54.80	0.6	GTA	27.46	323	iPd	11	07.30	0.1			
ARU	153.87	14	PKPc	54	12.00	2.8X	ANP	6.43	6	Pc	06	58.00	0.8				S	15	48.00				
ELT	154.91	336	ePKP	54	07.00	-3.6X				S	08	04.00		TRT	27.50	198	iPd	11	07.50	0.0			
PYA	155.80	51	PKP	54	16.60	4.4X	HKC	7.17	301	P	07	04.00	-3.5X		0.9s	304.00nm				6.0mb			
BKR	156.92	56	PKPc	54	17.60	3.7X				S	08	19.00		SHIO	27.61	289	iPd	11	08.70	0.0			
LEN	157.45	58	ePKP	54	22.00	7.4X	CNP	7.22	149	ePc	07	10.60	2.4	PPI	27.70	229	ePd	11	09.50	0.2			
ERE	158.09	59	ePKP	54	14.00	-1.3				iS	08	18.00			1.3s	532.00nm				6.1mb			
MAK	159.11	50	ePKP	54	34.00	17.8X	PLP	8.54	151	ePc	07	26.50	-0.1	BSI	28.15	245	ePc	11	13.50	0.1			
KRV	159.28	57	ePKP	54	15.00	-1.5				eS	09	01.00		JAY	28.79	135	eP	11	17.80	-1.5			
SEM	159.29	340	ePKP	54	14.00	-2.1	PPR	9.15	193	eP	07	34.00	-1.0				eS	14	28.50				
SHIO	159.34	259	ePKP	54	15.00	-2.2				eS	09	16.00		KUPT	28.85	174	eP	11	18.80	-0.8			
SHL	159.34	259	PKP	54	19.00	1.8	CGP	10.90	159	iPd	08	01.00	2.0		0.5s	72.00nm				5.6mb			
GRS	159.63	60	PKPc	54	21.00	3.9X	PPH	12.02	154	ePc	08	18.20	4.0X				eS	14	32.00				
TAB	159.99	64	ePKP	54	22.00	4.5X				eS	10	31.00		LSA	29.10	298	iPd	11	22.50	0.1			
GBA	160.81	205	PKP	54	28.00	9.3X	SSE	12.30	1	iPd	08	16.70	-1.1				iS	16	13.50				
	1.2s	13.90nm					DAV	12.48	158	Pd	08	22.00	1.7	SAP	29.79	31	eP	11	18.00	-9.9X			
CAL	160.89	247	PKP	55	11.00	52.4X	WHN	13.13	335	P	08	28.00	-0.9				eS	16	14.00				
WMQ	160.89	316	PKP	54	19.20	1.0	NJ2	13.36	353	P	08	30.00	-1.9	MTN	33.00	161	eP	11	53.00	-3.3X			
			PP	58	47.00					SP	08	37.50					e	14	40.00				
LSA	161.11	271	ePKP	54	23.20	3.9X	KKM	13.41	200	iPc	08	34.10	1.4	WOM	33.32	126	eP	12	03.00	3.9X			
KER	161.12	75	ePKP	54	23.00	4.2X		0.8s	221.00nm				6.1mb	YSS	33.42	28	Pd	11	59.80	0.1			
BOK	163.58	247	PKP	55	15.20	53.9X	GYA	15.16	303	Pd	08	55.00	-0.6				pP	12	10.50	38kmX			
MYB	163.77	213	ePKP	54	26.00	4.3X				eS	11	40.00					sP	12	16.00				
			ePP	59	00.00		MNI	17.64	167	ePc	09	29.50	2.4				iS	17	18.00				
			ePPS	12	48.00					eS	09	34.00					esS	17	32.00				
			eSS	19	26.00		TIA	17.70	350	Pd	09	28.70	1.0	KKI	33.92	131	Pc	12	05.60	1.2			
TLG	166.50	334	ePKP	54	23.00	-0.4				eS	12	43.50		ZAK	34.53	340	Pd	12	09.40	0.2			
POO	166.58	199	PKP-	54	28.20	4.1X	KMI	17.93	294	Pd	09	31.00	0.1				eS	17	37.70				
PRZ	166.74	329	ePKP	54	23.00	-0.7				SP	09	40.00		KUR	34.67	34	Pd	12	10.00	-0.4			
KAT	166.80	50	ePKP	54	39.00	15.4X				PP	09	48.00					iS	17	38.00				
KRD	167.17	341	PKP+	54	24.00	0.1				S	12	49.00		KNA	35.16	167	Pc	12	11.40	-3.5X			
			PP	59	04.00		XAN	18.57	327	Pd	09	38.00	-0.4	TUP	35.62	359	Pd	12	18.70	0.3			
BOM	167.19	195	PKP	54	28.00	3.5X				S	13	00.00		IRK	35.87	343	ePd	12	21.00	0.3			
FRU	167.80	341	ePKP	54	24.00	-0.3	SHK	18.93	32	ePc	09	40.00	-2.8				epP	12	30.00	30kmX			
NRN	168.60	334	ePKP	54	23.00	-2.3				eS	13	22.20					eS	17	54.00				
ASH	168.84	51	ePKP	54	21.00	-4.0X	SEO	19.50	15	iPd	09	49.50	0.1	LAT	36.10	132	eP	12	23.00	0.1			
SEH	169.30	222	PKP-	54	20.00	-5.7X	CD2	19.63	311	Pd	09	50.00	-1.0	KVG	36.31	123	eP	12	24.00	-0.7			

22d 15h

WMO	37.36	319	iPd	12	34.20	0.8	PSH	46.35	299	iPd	13	47.40	0.5	GRS	66.52	306	Pd	16	10.60	-0.5
			S	18	17.50					eS	20	32.20					ipP	16	20.60	32kmX
PMG	38.17	135	ePd	12	38.00	-2.4	MGD	46.54	20	Pd	13	47.00	-1.0				isP	16	25.60	
RAB	38.37	123	Pd-	12	42.00	-0.1				ipP	13	55.00	27kmX				iS	24	57.60	
			iS	13	23.00					iS	20	29.00		TAB	66.67	304	iPd	16	12.00	0.0
LMG	38.49	133	Pc	12	41.80	-1.4	KHO	46.75	304	P	13	51.00	0.8	GRO	66.69	310	Pd	16	13.10	1.3
UER	38.94	333	Pd	12	47.50	1.1				S	20	40.70					iS	25	03.10	
MBL	39.68	181	eP	12	50.00	-2.8	ANR	46.76	309	Pd	13	51.60	1.5	KHE	67.27	351	Pd	16	15.00	0.0
HYB	40.14	275	Pd-	12	56.50	-0.3				esP	14	09.10					esP	16	32.00	
			e	13	01.80					iS	20	45.10					eS	25	06.00	
			e	13	19.00		HNR	47.67	123	ePd	13	58.00	0.5	VUN	67.38	119	ePd	15	16.60	-60.0X
			ePP	14	27.00					eS	20	24.00			1.5s		17.90nm			
			e	14	52.00		GAR	47.95	306	P	14	00.00	0.4	ERE	67.86	307	Pd	16	20.00	0.6
			ePcP	15	02.50					eS	20	49.30					iS	25	18.00	
			e	15	20.00					eS	20	51.30		LEN	68.29	307	Pd	16	23.00	0.8
			ePcS	18	49.00		KUL	48.21	304	Pd	14	02.00	0.5				eS	25	26.00	
			eS	18	56.00					eS	20	59.60		SDN	68.37	37	P	16	20.70	-1.5
			ePS	19	24.00		KAAO	48.38	300	iPd	14	03.40	0.3	PYA	68.53	311	Pd	16	22.00	-1.4
			eSS	21	52.00		DSH	49.07	305	Pd	14	08.30	0.2				iS	25	22.00	
			eScS	23	14.00					eS	21	04.60		BHD	68.87	299	eP	16	16.00	-9.7X
WRA	40.67	160	Pc	12	58.00	-2.1	TAS	49.15	309	Pd	14	10.00	1.4				i	16	25.50	
	0.6s		41.90nm			5.4mb				iS	21	18.00					e	1[illegible]	06.00	
WB2	40.68	160	Pd	12	57.80	-3.3X	SEY	49.17	18	Pd	14	09.30	0.8				i	26	08.00	
			eS	19	08.70					ipP	14	18.70	31kmX				e	25	27.00	
			eP'P'	44	44.30					iS	21	13.30					i	25	26.00	
ESA	40.94	131	eP	12	08.00	-55.3X	KLG	49.25	179	Pd	14	07.00	-2.4				e	26	10.00	
NDI	40.94	292	iPd	13	01.00	-2.2	QUE	49.95	294	iPd-	14	15.00	-0.2				i	44	00.00	
	Z 18s		39.50um			6.3Msz				eS	21	25.00		TTA	70.38	29	ePd	16	34.80	0.4
			ePP	14	42.00		KLB	50.14	183	Pc	14	15.00	-1.2	SVW	70.67	31	ePd	1[illegible]	36.80	0.6
			eS	19	05.00		SAM	50.60	306	Pd	14	20.40	0.5	MOS	70.92	324	Pd	1[illegible]	38.00	0.3
			eSSS	22	21.00					isP	14	34.00					eS	25	51.00	
GBA	41.91	270	P	13	12.00	0.7				iS	21	37.20		IMA	71.21	25	ePd	16	39.70	0.2
	0.9s		167.00nm			5.8mb	MUN	50.63	185	eP	14	18.00	-2.0	OBN	71.56	323	iPd-	16	41.00	-0.6
PAA	42.27	123	eP	13	12.00	-2.4	NWAO	51.50	184	Pc	14	25.80	-0.7		1.6s		930.00nm			6.5mb
SKR	42.37	33	Pd	13	15.00	0.4				eS	21	47.00			Z 16s		38.00um			6.8MszX
			ipP	13	21.00	20kmX	TIK	53.10	3	Pd	14	36.00	-2.0		N 14s		10.00um			
			iS	19	34.00					pP	14	43.00	23kmX		E 16s		23.00um			
			esS	19	50.20					sP	14	51.00					ePP	17	05.00	
KOD	42.74	265	Pd	13	18.50	0.1				eS	21	58.00					ePP	19	30.00	
			PP	15	00.00		SMY	53.26	37	P	14	39.30	-0.2				iS	25	56.00	
			PcP	15	12.00		STK	54.14	158	eP	14	43.00	-3.2X				iScS	26	32.00	
			PPP	15	32.00		NRI	54.48	346	Pd	14	46.20	-2.1				iSS	30	44.00	
			eS	19	42.00					iS	22	15.00					iSSS	39	56.00	
			SS	22	40.00		BRS	55.34	145	Pd	14	52.80	-2.3	APA	71.89	336	Pd	16	42.80	-0.5
			LQ	23	00.00					i	14	58.00					ipP	16	50.80	26kmX
			ScS	23	20.00					iPcP	15	55.50					iS	26	03.00	
			SSS	23	30.00					eScP	19	53.00		CRZ	72.30	137	iP	16	49.00	2.7
			LR	25	13.00		ADE	56.06	162	Pd	14	58.60	-1.5	ANN	72.51	312	Pd	16	45.50	-1.9
PRZ	42.91	313	Pc	13	21.60	2.2	MHI	56.25	302	eP	15	02.00	0.2				eS	26	08.50	
UKR	42.95	327	Pd	13	20.00	0.6	KHI	56.96	299	eP	15	06.40	-0.6	KDC	72.60	34	eP	16	47.00	-0.7
ISQ	43.30	154	Pd	13	20.00	-2.6	ASH	57.19	303	Pd	15	09.30	1.0	PMR	73.72	30	ePd	16	53.20	-0.9
YAK	43.67	6	Pd	13	24.70	-0.3				S	23	05.80			Z 20s		10.00um			6.1Msz
			iS	19	48.80		VAN	57.39	303	ePd	15	09.00	-0.7	MIK	73.77	26	Pd	17	11.50	17.1X
LAH	43.67	296	eP	13	25.00	-0.5				S	23	06.50					eS	26	52.00	
KSH	43.75	308	iPd	13	29.00	2.8	COD	57.43	148	eP	15	10.00	0.0	COL	73.78	26	iPd	16	54.20	-0.3
			SP	13	38.00		SVE	58.27	326	Pd	15	15.50	0.0		Z 20s		16.70um			6.3Msz
			S	19	58.00					iS	23	17.00					eS	26	24.00	
TLG	43.88	314	Pd	13	29.50	2.3	ADK	58.53	40	P	15	15.30	-2.1	FBA	73.78	26	P	16	54.10	-0.4
			iS	20	04.50		KAT	58.84	305	Pd	15	20.50	0.7	KEV	73.89	339	iPd-	16	55.00	0.0
ASP	44.06	163	Pd	13	26.30	-2.4				eS	23	28.00			0.6s		1280.00nm			7.1mb
			e	19	55.00		YOU	58.90	153	Pd	15	18.40	-1.8		Z 18s		17.00um			6.4Msz
NRN	44.28	311	Pd	13	31.60	0.9				i	16	10.10					ePP	19	40.00	
			eS	20	05.00		PVC	59.10	125	Pc	15	21.40	-0.4				eS	26	24.00	
POD	44.41	278	iPd	13	31.50	-0.2	ARU	59.27	325	Pd	15	22.40	-0.1				eScS	27	00.00	
			iPP	15	14.50					epP	15	28.00	18kmX				eSS	31	28.00	
			iPPP	15	40.50					esP	15	37.50		AFI	73.90	111	eP	16	53.00	-3.0X
			iPcS	19	12.00					eS	23	29.00					S	26	29.00	
			iS	20	00.00		BFD	59.27	160	eP	15	20.00	-2.7				SS	31	33.00	
			iSS	23	06.00		CAN	60.05	154	Pd	15	26.50	-1.6				SSS	34	09.00	
			iScS	23	24.50					i	16	14.40					LQ	36	00.00	
			iSSS	23	57.00		NOU	60.45	130	Pc	15	29.50	-1.5				LR	40	00.00	
NIL	44.81	299	iPd	13	35.00	0.2	TOO	60.64	158	eP	15	30.00	-2.1	KVT	74.08	308	P	16	56.50	0.1
			eS	20	16.00		WAM	60.75	154	P	15	32.00	-0.8	SOD	74.47	336	Pd	16	58.00	-0.4
WBN	44.97	173	eP	13	35.00	-1.0				i	16	15.90		KJF	74.65	333	Pd-	16	58.80	-0.7
PET	45.02	32	Pd	13	35.50	-0.5	ILT	61.80	22	Pd	15	38.00	-1.6				iPP	19	40.50	
			eS	20	04.00					ipP	15	46.50	28kmX				eS	26	32.00	
SEM	45.09	324	Pd	13	37.00	0.4				iS	23	58.00					eScS	27	00.00	
			eS	20	16.60		NKI	63.41	40	P	15	49.30	-1.2				eSS	31	24.00	
MEK	45.15	183	eP	13	36.00	-1.4	BAK	63.72	306	ePc	15	53.00	0.3	SIM	74.72	313	Pd	16	59.50	-0.8
FRU	45.67	312	Pd	13	42.80	1.4				S	24	31.00					iS	26	35.00	
			eS	20	21.80		MAK	65.43	309	P	16	02.40	-1.4	TOA	75.01	29	ePd	17	02.20	0.5
CTA	45.95	146	iPd-	13	42.00	-1.8				iS	24	47.60		ARO	75.12	277	iPd	17	03.90	0.7
	1.0s		121.00nm			5.8mb	TAU	66.02	159	eP	16	07.00	-0.4	KBS	75.28	349	iP	17	03.60	0.6
			i(PcS)	19	17.00		ANM	66.27	27	ePd	16	09.30	0.5	KIP	75.42	72	eP	17	06.00	1.3
			iS	20	23.00		KRV	66.42	307	Pd	16	10.00	-0.2				eS	26	40.00	
NVS	45.98	331	Pd	13	43.20	-0.4				S	25	01.00		SUF	75.64	332	P	17	04.50	-0.7
			iS	20	16.00		KER	66.47	300	ePd	16	09.50	-1.3	KAS	75.70	309	P	17	05.00	-1.1

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22d 15h

KRP	76.27	138	Pd	17	11.00	1.9
TNZ	76.32	140	iP	17	11.80	2.4
KIR	76.66	337	Pd	17	10.60	-0.3
ANTO	76.76	308	iPd	17	12.70	0.6
NUR	76.87	330	iP	17	11.90	-0.2
	1.5s	543.00nm				6.4mb
	Z 16s	70.60um				7.1MszX
			ePP	20	08.00	
			eS	26	56.00	
			eScS	27	26.00	
			eSS	32	08.00	
BRZ	76.91	148	eP	17	13.00	0.5
MGN	76.97	309	P	17	14.20	1.0
RHP	77.06	146	iP	17	13.80	0.3
KIS	77.83	316	Pd	17	17.00	-0.7
			iS	27	06.00	
			iS	27	16.00	
SNZO	77.83	142	eP	17	17.60	-0.1
WEL	77.86	141	iPd	17	18.50	0.7
			PP	20	20.00	
			S	27	13.00	
			SS	33	16.00	
			LQ	40	00.00	
			LR	43	00.00	
MNG	77.87	141	iPd	17	17.50	-0.5
			i	17	59.00	
UME	77.93	334	Pd	17	17.00	-0.9
			iS	26	57.00	
			iSKS	27	36.00	
GNZ	78.27	138	iP	17	21.90	1.7
PCA	78.29	30	P	17	21.10	1.0
IAS	78.65	316	eP	17	23.00	0.8
BIR	78.85	315	eP	17	25.00	1.7
ALT	78.98	308	P-	17	24.00	-0.3
BCK	79.03	306	P	17	23.10	-1.5
ISK	79.22	310	P	17	25.30	-0.2
BAC	79.25	316	eP	17	23.00	-2.5
			eS	27	23.00	
IST	79.28	310	P-	17	25.00	-0.8
			PKP	20	28.00	
BKT	79.41	309	P	17	25.40	-1.4
VRI	79.56	315	P	17	26.10	-1.1
			eS	27	27.00	
CTT	79.66	310	P	17	26.40	-1.5
AAE	79.69	276	eP	17	30.50	1.6
ELL	79.74	305	P-	17	27.00	-1.6
DST	79.94	308	P	17	28.80	-0.7
LVV	80.17	319	Pd	17	31.10	0.7
			iS	27	31.00	
MLR	80.19	315	Pd	17	31.50	0.7
EDC	80.30	309	P	17	30.40	-0.9
BUC	80.40	314	eP	17	32.00	0.3
			iPP	17	33.00	
			iPP	20	30.00	
			iS	27	38.00	
UPP	80.41	330	Pd	17	30.70	-0.7
			i	27	34.00	
BUC1	80.46	314	iPd	17	30.00	-2.0
HLW	80.47	298	iPd	17	33.00	0.6
			iS	27	18.50	
CMP	80.87	315	P	17	35.10	0.9
			eP	17	36.00	
			eS	27	38.00	
YER	80.89	306	P	17	34.50	0.0
AVY	80.92	247	iPd	17	34.00	-1.1
WAR	81.21	322	ePd	17	38.00	2.2
	Z 18s	33.00um				6.7Msz
			ePP	20	42.00	
			eS	27	42.00	
			ePS	28	46.00	
PVL	81.41	313	Pd	17	37.00	-0.1
DIM	81.45	311	eP	17	38.00	0.7
UZH	81.61	318	Pd	17	39.00	1.0
			pP	17	50.00	35kmX
			eS	27	48.00	
DAG	81.68	351	iPd	17	37.10	-0.7
			iS	27	47.00	
			iPS	28	48.00	
KDZ	81.74	311	Pd	17	39.00	0.2
SIT	81.74	32	P	17	39.70	1.3
APO	81.86	331	P	17	38.15	-0.9
DEV	82.11	316	eP	17	36.00	-4.6x
MFS	82.13	331	P	17	39.70	-0.7
	0.9s	114.00nm				5.9mb
			e	55	00.00	
SLL	82.16	332	P	17	39.97	-0.7
NIE	82.58	320	iPd	17	42.00	-1.1
	0.8s	120.00nm				6.0mb
KRA	82.59	320	iPd	17	43.10	0.0
	0.7s	198.00nm				6.3mb
	Z 20s	25.00um				6.6Msz
	N 20s	23.00um				
	E 20s	18.00um				
			ipP	17	50.00	22kmX
			ePP	20	56.00	
			eS	27	56.00	
			eSS	33	24.00	
SPC	82.71	319	iPd	17	43.40	-0.5
	Z 15s	27.70um				5.7MszX
			i(PP)	20	54.00	
JOS	82.76	319	Pd	17	43.80	-0.2
			i	18	35.00	
			i	19	32.00	
			i	21	44.00	
NB2	82.86	332	P	17	43.40	-0.9
	0.8s	32.20nm				5.5mb
			PP	20	53.20	
VTS	82.96	312	Pd	17	46.00	0.9
			iS	28	00.00	
OUR	83.13	310	ePd	17	45.30	-0.7
SRS	83.16	311	ePd	17	45.00	-1.2
SSR	83.21	315	P	17	47.10	0.7
TIM	83.26	316	Pc	17	45.40	-1.2
PSZ	83.37	318	P	17	47.30	0.1
SOH	83.43	311	eP	17	47.40	-0.2
PAIG	83.48	310	ePd	17	47.00	-0.8
KNT	83.64	311	ePd	17	47.60	-1.1
THE	83.77	311	iPc	17	48.80	-0.5
			iSn	28	00.00	
VAY	83.82	311	iPd	17	48.80	-0.7
GRG	84.06	311	eP	17	49.60	-1.2
BUD	84.07	318	Pc	17	51.00	0.3
			i	18	23.00	
			i	19	24.00	
			iPP	21	10.00	
ATH	84.09	308	iPd	17	50.00	-0.9
			iS	28	10.00	
BEO	84.09	315	P	17	49.80	-1.0
			iS	28	20.80	
KON	84.20	332	iP	17	59.30	-0.8
LIT	84.29	310	e	17	50.30	-1.7
SKO	84.40	312	iPd	17	52.00	-0.5
			iPP	21	12.00	
			iS	28	16.50	
			iPS	29	12.00	
			iSS	33	56.00	
			iSSS	37	40.00	
SRO	84.40	319	eP	17	51.60	-0.7
	N 16s	19.70um				
	E 16s	17.80um				
			e	19	20.00	
			i	21	15.60	
			e(S)	28	19.00	
			e	28	27.00	
KSP	84.47	322	eP	17	53.00	0.4
	1.3s	190.00nm				6.1mb
			i	17	54.00	
			i	18	04.50	
			e	28	17.50	
COP	84.61	327	iPc-	17	54.50	1.4
	1.4s	744.00nm				6.7mb
			ePP	21	10.00	
			iSKS	28	17.00	
OHR	85.15	312	eP	17	52.20	-4.1X
			eS	28	19.20	
VIE	85.44	320	Pd	17	59.00	1.5
			i	18	53.00	
			i	19	18.00	
			PP	21	18.00	
			i	22	09.00	
			i	29	30.00	
			e	05	00.00	
BRL	85.52	324	ePd	17	59.00	1.2
SOP	85.54	319	Pd	17	57.00	-1.0
			i	33	41.00	
			i	33	54.00	
			e	36	10.00	
BRN	85.59	324	iPd	17	59.00	0.9
			eS	28	29.00	
BER	85.72	333	iP	17	58.30	-0.3
TIR	85.72	312	P	18	00.60	1.5
TTG	85.75	313	P	17	48.50	-10.7x
BRG	85.82	323	iPd	17	59.50	0.1
			i	18	07.00	
			PP	21	18.00	
			S	28	33.00	
			SP	29	28.00	
			SS	34	08.00	
PRU	85.84	322	iPd	18	00.00	0.5
	1.9s	857.00nm				6.6mb
	Z 18s	19.80um				6.6Msz
	N 15s	28.20um				
	E 20s	13.90um				
			i	18	07.30	
			PP	21	16.00	
			S	28	28.00	
			e	29	23.00	
PRA	85.87	322	iPd	18	00.00	0.4
			PP	21	24.00	
			PS	29	20.00	
CLL	86.18	323	iPd	18	00.90	-0.2
			i	18	08.00	
			PP	21	20.00	
			e	24	40.00	
			SKS	28	16.00	
			S	28	33.00	
			P'P'	44	19.00	
DRV	86.36	172	P+	18	01.90	0.4
KMC	86.77	321	iPd	18	04.40	0.3
	2.0s	635.00nm				6.5mb
	Z 16s	15.70um				6.5MszX
	N 16s	10.50um				
	E 16s	13.90um				
			PP	21	27.00	
			S	28	30.00	
KMR	86.89	320	iPd	18	05.40	0.7
			i	21	31.00	
			e	29	09.00	
			e	02	08.00	
NPA	87.05	253	eP	18	07.00	1.1
WET	87.18	321	iPd	18	05.50	-0.6
	2.5s	15.40nm				4.8mb X
HOF	87.25	323	iPd	18	06.00	0.2
	2.0s	696.00nm				6.6mb
	Z 18s	36.00um				6.8Msz
			eS	28	42.00	
MOX	87.26	323	iPd-	18	06.50	0.1
			PP	21	32.00	
			SKS	28	30.00	
			PS	29	40.00	
RAR	87.26	113	ePd	18	08.00	1.2
			SKS	28	40.00	
			S	29	53.00	
LJU	87.48	318	iPd	18	07.60	0.0
			ePP	21	35.00	
			ePPP	23	47.00	
			eSKS	28	41.00	
MIR	87.56	191	Pd	18	07.00	-0.3
			iS	28	34.00	
BHG	87.79	320	eP	18	09.20	0.1
	2.0s	946.00nm				6.7mb
GRF	87.91	322	ePd	18	09.90	0.3
	2.3s	995.00nm				6.7mb
	Z 14s	33.60um				6.9MszX
			ePP	21	37.00	
YKA	88.09	22	P	18	12.10	1.9
TRI	88.10	318	iPd	18	10.00	-0.5
			iPP	21	25.30	
			iS	28	40.00	
			eSP	29	43.00	
			eSS	34	48.00	
			eSSS	38	18.00	
			i	41	24.00	
MPRI	88.37	319	P	18	14.70	2.8
FUR	88.57	321	iPd	18	13.20	0.4
	2.2s	2000.00nm				7.0mb
			i	21	44.50	
ORI	88.62	312	P	18	15.00	1.9
ROI	88.72	311	P+	18	14.20	0.5
CSI	88.84	312	P+	18	14.60	0.3
TNS	89.25	324	ePd	18	15.90	-0.1
WTS	89.28	326	ePd	18	16.00	0.0
			e	18	28.00	
CTI	89.29	319	P-	18	15.50	-0.9
OGA	89.30	320	iPd	18	16.50	-0.1
	2.0s	913.00nm				6.7mb
DUI	89.34	314	P-	18	16.50	0.0
PRO	89.41	317	P	17	22.10	-54.7X
ALP	89.47	315	P-	18	17.10	0.0
STU	89.51	322	iPd-	18	17.00	-0.2
	2.8s	1430.00nm				6.8mb

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	Z 20s 13.50um 6.4Msz	PNI	92.51 319 P 18 28 80 -2.4	LGR	99.81 321 eP 19 06.80 2.3
BNS	89.59 325 iPd 18 18.00 0.5	CVF	92.66 317 eP 18 31.80 -0.1		iPP 23 08.00
AQU	89.76 315 P 18 18.50 -0.1	LOR	93.37 323 eP 18 34.60 -0.5	SBA	99.94 171 eP 19 05.00 0.8
	e 24 49.50	LBF	93.45 322 eP 18 35.00 -0.5		PP 22 50.00
MES	90.00 311 P 18 18.70 -0.9	FRF	93.60 318 eP 18 35.90 -0.3		SKS 29 44.00
DBN	90.09 326 iPd 18 20.00 0.2	SSF	93.68 323 eP 18 36.00 -0.5		S 30 42.00
	Z 21s 15.80um 6.4Msz		1.6s 161.00nm 6.2mb		SP 32 03.00
	ePP 21 56.00	SMF	93.71 322 eP 18 36.10 -0.5		SSS 41 52.00
	eSKS 28 55.00	LMR	93.80 318 eP 18 37.00 -0.1		LQ 50 00.00
	ePS 30 16.00	LRG	93.83 318 eP 18 37.20 0.0		LR 55 00.00
PRG	90.11 316 P 18 22.00 1.9	AVF	93.91 322 eP 18 37.10 -0.4	SLR	100.13 246 iPdiff19 06.70 0.3
	e 22 14.00	MZF	94.67 322 eP 18 40.90 -0.2		1.2s 117.00nm 6.3mb
BUH	90.12 322 eP 18 19.50 -0.6	PYM	94.68 322 P 18 41.00 -0.2		Z 18s 33.30um 6.9Msz
SAL	90.19 319 P- 18 21.00 0.6	TCF	94.85 322 eP 18 41.80 -0.1		i 23 10.20
MNS	90.23 315 P- 18 19.70 -0.9		1.6s 153.00nm 6.2mb	PRI	100.28 46 iPdiff19 08.20 1.4
	iPP 21 57.00	SSC	94.85 325 eP 18 41.00 -0.8	FRI	100.47 45 iPdiff19 08.30 0.8
GWF	90.33 323 P- 18 20.80 -0.2	DMU	94.92 332 eP 18 40.10 -1.9	ALI	100.94 317 iPdiff19 10.00 0.5
ENN	90.38 325 ePd 18 21.00 -0.2		1.7s 430.00nm 6.6mb		iPP 23 16.00
	e 18 33.00	FLN	94.95 325 eP 18 41.20 -1.1	KSR	101.37 246 iPdiff19 12.50 0.5
	ePP 21 33.00		1.6s 65.40nm 5.8mb		0.7s 13.70nm 5.7mb
MEM	90.41 325 Pc 18 24.70 3.4X	DDK	95.00 331 eP 18 41.10 -1.3	EUR	101.49 41 iPdiff19 13.50 1.2
RMP	90.47 315 P- 18 21.00 -0.8		1.5s 260.00nm 6.4mb		1.2s 21.50nm 5.6mb
	iPP 21 59.00	DKM	95.05 331 eP 18 41.10 -1.5	TOL	102.29 320 Pdiffd19 17.00 1.5
	iS 28 52.00		1.7s 230.00nm 6.3mb		iPP 23 24.00
	iPPS 30 24.00	DLE	95.15 331 eP 18 41.70 -1.4		iPS 32 38.00
LIS	90.54 320 P 18 22.00 -0.3		2.0s 420.00nm 6.5mb	PAS	103.07 47 ePdiff19 15.00 -4.1X
FIR	90.55 317 Pd 18 23.50 1.4	LSF	95.26 323 eP 18 43.30 -0.5		Z 20s 13.00um 6.5Msz
	PP 21 46.00		1.6s 108.00nm 6.0mb		N 20s 18.00um
	PPP 23 36.00	GRR	95.37 325 eP 18 43.50 -0.7		E 20s 12.00um
	S 28 06.00	DCN	95.45 332 eP 18 39.00 -5.5X		ePP 23 30.00
ZUL	90.61 321 Pd 18 21.50 -0.9		1.5s 170.00nm 6.3mb		eSKS 30 00.00
PRT	90.61 317 P 18 23.00 0.6	FHC	95.63 44 iP 18 47.00 1.4		eS 31 06.00
	iPP 22 00.00	NEW	95.64 35 eP 18 46.20 0.6		ePS 32 44.00
	iS 29 01.00	LPF	95.68 325 eP 18 45.00 -0.6		eSS 38 32.00
	iPS 31 29.50	CAF	95.69 321 eP 18 45.80 0.0		eSSS 42 04.00
MEI	90.72 310 P 18 22.50 -0.5		1.6s 90.60nm 6.0mb	SFS	105.73 318 ePdiff19 30.00 -0.8
CDF	90.80 322 eP 18 23.00 -0.3	ECP	95.80 330 eP 18 45.70 -0.4		iPP 23 44.00
	1.6s 321.00nm 6.4mb		0.9s 40.00nm 5.9mb		eS 31 30.00
WLF	90.81 324 ePd 18 28.00 4.8X	RJF	95.80 322 eP 18 46.50 0.2		ePS 34 18.00
	PP 22 06.00		1.4s 170.00nm 6.3mb	ALO	110.24 40 ePdiff19 52.00 0.7
ECH	90.97 322 P- 18 23.60 -0.4	CIR	95.87 250 eP 18 47.00 0.1		Z 22s 27.80um 6.8Msz
	ePP 21 59.00		iPP 22 39.00		e 23 53.00
	ePPP 24 02.00	MAW	95.88 199 eP 18 46.00 0.1	CHI	114.16 23 PKP 24 52.50 52.7X
	iSKS 28 59.00	MFF	96.02 324 eP 18 47.00 -0.2	SIO	115.38 33 iPKP 24 02.70 0.4
PCN	90.98 319 P 18 26.50 2.5		1.6s 175.00nm 6.3mb	TUL	115.52 32 ePKP 25 03.30 60.8X
	eS 26 34 00	YKM	96.03 34 iPc 18 49.70 2.2		1.5s 70 30nm
BBS	91.14 321 Pd 18 23.50 -1.3	RXF	96.34 33 iPc 18 50.80 2.0		Z 20s 17.10um 6.7Msz
BVT	91.18 318 P 18 25.40 0.5	LPO	96.34 321 eP 18 48.80 0 1	RLO	115.71 32 ePKP 24 02.80 -0.1
GIB	91.19 311 P 18 24.00 -1.3	KRI	96.38 254 eP 18 48.00 -1.5	GBO	115.87 32 iPKPd 24 03.50 0.3
UCC	91.21 325 Pd- 18 24 80 -0.2	LFF	96.46 322 eP 18 49 30 0.0	FVM	116.38 27 ePKP 24 03.00 -1.1
	PP 22 03.00	LDM	96 49 34 iPc 18 51 40 2.0	BHO	117 19 33 ePKP 24 05.90 0.2
	SKS 29 01.00	WDC	96 69 43 iPd 18 51.30 0 9		1.4s 160.00nm
	S 29 26.00	CNG	96.93 245 iPc 18 50 00 -1.5	JCT	117.36 39 iPKPd 24 06.70 0.4
	SP 30 28.00		e 22 51 00		Z 18s 23.00um 6.8Msz
BAF	91.25 322 P- 18 24.80 -0.6	MLS	97.37 320 eP 18 53.40 0.0		i 25 16.00
BSF	91.37 322 eP 18 25.40 -0 6	MIN	97.42 43 iP 18 54.00 0.1	SCP	118.26 16 ePKP 24 07.20 -0.4
	1.6s 273.00nm 6.4mb	VAL	97.73 332 Pd 18 56.00 1.2	SNA	118.44 199 e(PKP)24 08.00 1.0
DOU	91.45 325 ePd 18 26.00 -0.1		PPP 22 52.00	ORT	120.65 24 ePKP 24 12.30 0.0
	PP 22 03.00		PPS 31 40.00	BLA	120.84 20 iPKPc 24 23.10 10.4X
	SKS 29 02.00		SS 36 48.00	KIC	120.84 290 ePKP 24 12.50 -0.8
EDU	91.50 333 eP 18 24.80 -1 5		LQ 49 15.00	KDS	124.22 300 iPKP 24 19.90 0.2
	1.5s 566 00nm 6.7mb		LR 55 20.00	IIC	125.12 48 ePKP 24 22.10 0.3
HAU	91.54 322 eP 18 26.30 -0 4	EPF	97.78 320 eP 18 54.50 -0.8	IIP	125.64 48 ePKP 24 23.50 0.7
NEC	91 69 321 Pd 18 26.50 -0.9		1.4s 18.90nm 5.4mb	III	125.89 49 ePKP 24 23.80 0.6
GEN	91.74 318 P 18 27.00 -0.6	ORV	97.91 44 iPd 18 56.10 0.2	IIT	126.29 48 ePKP 24 24.30 0.3
	eS 43 20.00	SET	98 12 312 P 18 58.00 1.0	MBO	126.95 305 iPKP 24 26.50 1.6
DIX	91.88 320 Pd 18 28.00 -0 5	BUL	98.27 252 P- 18 57.00 -0.9		i 24 33.60
EBH	91.91 333 eP 18 27.40 -0 7		iPP 23 01.00		i 24 37.00
	1.5s 350.00nm 6.6mb		iS 29 34.00		i 26 25.10
PGC	91.92 37 eP 18 20.00 -8.3X	BKS	98.30 45 eP 18 58.80 1.1		e 27 45.10
EBL	92.00 332 iPc 18 28.30 -0.2		2.2s 390.00nm 6.5mb		e 28 19.30
	1.4s 291.00nm 6.5mb		Z 22s 23.00um 6.6Msz	LPS	135.83 44 PKP 24 41.00 -1.0
EAU	92.13 332 ePc 18 28.70 -0 5		N 22s 7.00um		PP 27 18.00
	1.3s 353.00nm 6.6mb		E 22s 26.00um		SKS 28 22.00
GDH	92.15 358 iPc 18 30.00 1.0		eS 29 41.50	LSP	142.49 12 ePKP 24 41.00 -12.9X
	1.5s 211.00nm 6.3mb		ePS 31 45.50	LCR	142.57 43 PKP 24 51.00 -3.4X
	iPP 22 10.00		eSS 36 40 00	SJG	142.73 11 ePKP 24 49.00 -5.4X
	iSKS 29 00.00		eSSS 40 02 00	GAL	146.63 30 iPKP 25 01.20 0.2
	iSS 35 34.00	EBR	98.93 318 eP 19 01 00 0.6	FDF	146.67 3 ePKP 25 02.40 1.3
ERC	92.19 311 P 18 29.00 -0.7		ePP 23 01.00	LGN	148.91 24 ePKP 24 55.00 -9.6X
EAB	92.31 333 eP 18 29.10 -0.8		eSKKS 30 01.00	TOV	149.77 21 iPKPc 25 08.20 2.1
	1.5s 312.00nm 6.5mb	MHC	98.98 46 iP 19 02 00 1.1	CAR	149.94 15 ePKP 25 06.50 0.1
EKA	92.32 332 P 18 30.00 0.0	ARN	99.05 46 eP 19 02.00 0.9	SDV	150.30 23 ePKP 25 07.90 0.9
	1.6s 417.00nm 6.6mb	AMM	99.22 35 eP 19 03 50 1.5		0.6s 33.30nm
ESK	92.35 332 eP 18 31.50 1.3	JAS	99.47 45 iPd 19 03 80 0.8	UAV	150.36 25 ePKP 25 07.50 0.4
ROB	92 47 319 P 18 30.00 -1.0		P'P' 43 46 00		1.7s 429.00nm
REY	92.50 345 iP 18 32.20 1.5	LRM	99.66 35 eP 19 04.20 0.1	CUM	150.55 10 ePKP 25 21.00 13.9X

22d 15h

TRN	150.71	4	ePKP	25 08.50	1.2
	1.0s	276.00nm			
CHN	151.40	36	ePKP	25 09.00	0.3
FUO	151.98	32	ePKP	25 01.00	-8.8X
BOG	152.53	34	iPKP	25 12.50	2.0
PSO	153.33	44	iPKP	25 13.50	1.8
LM2	161.53	72	ePKP	25 23.50	2.5X
NNA	161.69	71	ePKP	25 22.40	1.2
	1.0s	84.00nm			
			e(S)	26 08.10	
SAN	162.11	147	PKP	25 23.00	1.8
PEL	162.34	146	PKP	25 22.00	0.6
HUA	163.06	69	PKP-	25 26.00	2.9X
			eP	26 08.00	
			iS	29 59.00	
LPA	163.87	184	PKPd	25 21.00	-1.8
			e	26 17.00	
			PP	30 01.00	
			SKS	32 26.00	
			SKKS	36 44.00	
			e	37 26.00	
			SKSP	40 16.00	
			PPS	43 34.00	
BAA	164.21	182	PKPd	25 25.60	2.5
			PKP	26 19.60	
			PKS	29 05.60	
			PP	29 59.60	
TLL	164.48	139	PKP	25 25.90	2.0
RDJ	164.53	252	PKPd	25 25.60	1.9
			i	26 20.00	
			iPP	30 08.00	
			iSKKS	36 39.60	
			iSKSP	40 39.20	
			iPPS	44 10.00	
CEN	164.57	148	e(PKP)	25 21.00	-2.7X
CFA	164.80	149	PKPd	25 24.50	0.6
ARE	168.03	81	iPKPd	25 29.00	2.0
	2.0s	706.00nm			
			e	26 37.50	
			e	30 20.00	
			e	44 20.00	
			e	51 08.00	
			e	53 04.00	
CYA	168.60	149	PKPd	25 28.50	1.7
FDA5	169.75	223	PKP	25 29.40	1.8
			e	25 37.30	
ZOBO	171.11	75	PKP	25 30.80	1.7
LPB	171.21	77	PKP	25 31.30	2.3
	1.8s	955.00nm			
	Z 23s	16.30um			
	S.D. = 1.1 on 435 of 470 obs				

NOV 27, 1981 17h 21m 45.37± 0.05s
42.877 N ± 1.1km 131.247 E ± 1.2km
DEPTH = 544.2km (47 depth phases)
5.8mb (66 obs)
E. USSR-N.E. CHINA BORDER REG. (657)

VLA	0.53	63	Pd	22 51.80	1.6
			iS	23 44.00	
CN2	4.33	284	iPc	23 09.60	-0.4
			iS	24 14.00	
			PcP	29 20.00	
			iScS	35 27.00	
SUT	6.61	88	P	23 28.90	-1.2
			S	24 53.50	
SAI	6.86	166	P+	23 34.20	1.7
			eS	24 59.00	
WAJ	6.98	140	P-	23 34.50	0.8
			eS	25 00.00	
HAK	7.13	95	P	23 33.20	-1.9
			S	25 01.20	
AIK	7.21	130	P-	23 34.90	-1.0
			eS	25 04.00	
AOMJ	7.21	106	P	23 34.40	-1.5
MRRJ	7.26	90	P	23 34.60	-1.8
AKI	7.38	112	P-	23 36.90	-0.6
			S	25 02.20	
SAP	7.40	85	P-	23 37.00	-0.8
			iS	25 06.50	
AOM	7.41	103	P	23 37.00	-0.9
			eS	25 06.00	
MTS	7.55	169	P+	23 40.10	0.9
			S	25 12.40	
KAN	7.57	145	P-	23 40.20	0.8
			eS	25 08.00	
RMJ	7.64	78	P-	23 39.00	-1.1
			eS	25 10.00	
TOY	7.68	141	P-	23 41.00	0.5
TOT	7.70	162	P	23 42.00	1.3
			iS	25 15.80	
TOTJ	7.75	161	P	23 42.00	0.8
FUK	7.83	149	P	23 42.00	0.0
			eS	25 16.00	
TYK	7.84	158	P	23 40.00	-2.1
			eS	25 11.00	
YONJ	7.87	167	P+	23 43.50	1.0
TKD	7.88	135	P	23 42.00	-0.5
			eS	25 17.00	
WAK	7.92	68	P-	23 42.30	-0.6
			eS	25 18.00	
HMD	8.00	175	P+	23 44.10	0.4
			S	25 20.90	
HAC	8.04	104	P	23 41.50	-2.6
			S	25 14.60	
MTMJ	8.06	139	P	23 44.00	-0.5
MAI	8.06	155	P	23 45.00	0.7
MRK	8.12	110	P	23 42.80	-2.1
			S	25 18.20	
ASA	8.16	80	P-	23 43.90	-1.4
			S	25 17.50	
TKY	8.16	143	P	23 46.00	0.6
YAMJ	8.18	122	P	23 44.00	-1.5
NIIJ	8.19	131	P-	23 43.90	-1.7
NGN	8.19	137	P-	23 45.30	-0.4
			S	25 22.20	
TSRJ	8.20	152	P-	23 45.90	0.2
MAT	8.29	137	P-	23 45.50	-1.2
			iScS	35 31.80	
YAM	8.32	121	P-	23 45.20	-1.8
			S	25 22.00	
			eScS	35 35.00	
MIZ	8.36	113	iPd	23 45.60	-1.7
			S	25 23.00	
ASAJ	8.38	73	P	23 45.90	-1.6
			eS	25 24.00	
SHK	8.41	172	iPc	23 48.00	0.2
			eS	25 26.80	
OKA	8.44	165	P	23 50.00	1.8
			eS	25 28.00	
HIM	8.47	160	P	23 50.00	1.6
			()	25 29.00	
HIK	8.53	151	P	23 49.00	0.0
			S	25 27.30	
URA	8.55	91	P-	23 47.60	-1.6
			iS	25 26.30	
HIR	8.55	173	P+	23 49.70	0.4
			eS	25 30.00	
			eScS	35 34.00	
KYO	8.60	155	P	23 50.00	0.3
			eS	25 25.00	
SEN	8.67	119	P-	23 48.30	-2.2
			iS	25 26.50	
ABU	8.69	156	Pd	23 50.50	-0.1
MIY	8.70	108	P	23 48.20	-2.5
			iS	25 25.30	
FKS	8.71	123	P-	23 49.00	-1.8
			iS	25 28.00	
SHNJ	8.74	181	P	23 52.00	0.8
OFUJ	8.75	112	P	23 48.10	-3.1X
OFU	8.79	112	P	23 48.50	-3.1X
			S	25 26.50	
OBI	8.79	83	P-	23 49.80	-1.9
			eS	25 31.00	
TKM	8.83	165	P	23 53.00	1.0
			eS	25 32.50	
MAE	8.84	134	P-	23 50.50	-1.7
			S	25 31.50	
OSA	8.84	156	P-	23 52.00	-0.2
			S	25 35.00	
ISN	8.84	117	P	23 49.20	-3.0
			iS	25 29.40	
			eScS	35 34.00	
HOOJ	8.89	89	P	23 50.40	-2.3
			S	25 31.30	
NAG	8.89	148	P+	23 52.00	-0.7
			S	25 35.00	
SHN	8.91	182	P	23 54.00	1.1
			eS	25 34.00	
NAR	8.93	155	P	23 53.00	-0.1
OSK	8.94	156	P-	23 53.50	0.2
			iS	25 35.50	
			eScS	35 33.00	
IID	8.96	143	P-	23 52.10	-1.3
			iS	25 35.40	
SHR	8.97	127	P	23 51.30	-2.2
SUM	9.00	160	P	23 54.00	0.2
IIDJ	9.02	143	P	23 52.20	-1.8
CHJJ	9.07	136	P	23 52.00	-2.6
MTY	9.10	172	P	23 55.80	1.0
			()	25 38.00	
YSS	9.12	59	Pd	23 54.20	-0.8
			iS	25 37.00	
TSU	9.14	152	P	23 55.00	-0.2
			eS	25 39.00	
TKSJ	9.15	165	P	23 56.00	0.7
KOF	9.16	139	P	23 53.00	-2.5
			eS	25 38.00	
WKY	9.16	159	P	23 57.00	1.5
			eS	25 43.20	
UTS	9.17	131	P-	23 52.90	-2.6
			S	25 36.40	
TKS	9.18	162	P	23 56.00	0.4
			eS	25 41.30	
KMG	9.20	134	P	23 53.00	-2.8
			S	25 34.80	
DDR	9.21	136	eP	23 52.90	-3.2X
			eS	25 37.80	
WKYJ	9.29	157	P	23 56.00	-0.8
FKK	9.31	184	P+	23 58.10	1.2
			iS	25 47.90	
KOC	9.48	168	P	24 00.00	1.3
			S	25 45.80	
ONA	9.49	125	P	23 56.10	-2.7
			S	25 40.30	
TSK	9.54	131	eP	23 55.50	-3.9X
ABJ	9.55	79	P-	23 58.60	-0.8
			eS	25 44.00	
			eScS	35 36.00	
SRY	9.56	137	eP	23 55.90	-3.6X
KAKJ	9.58	131	P-	23 56.00	-3.7X
HMM	9.59	146	P	23 59.00	-0.8
			eS	25 45.00	
OWA	9.61	155	P+	23 59.70	-0.3
			S	25 44.60	
MIT	9.63	129	P-	23 56.40	-3.8X
			eS	25 41.00	
			eScS	35 35.00	
OIT	9.63	178	P	24 01.00	0.8
			eS	25 52.00	
SAG	9.64	185	P+	24 01.60	1.2
			S	25 53.40	
KUS	9.65	85	P-	23 57.80	-2.6
			S	25 42.40	
SHZ	9.66	142	P	23 59.00	-1.5
			eS	25 45.00	
UWA	9.69	173	P	24 01.00	0.2
TOK	9.75	135	P	24 00.50	-0.9
			S	25 47.50	
UGL	9.76	47	Pc	24 01.60	0.1
			eS	25 43.60	
MIS	9.79	140	P+	24 00.70	-1.1
			iS	25 48.40	
KUSJ	9.87	84	P	24 00.80	-1.9
			eS	25 49.00	
MRI	9.89	166	P	24 02.00	-0.9
			()	25 51.00	
YOK	9.89	136	P	23 58.00	-4.8X
			S	25 50.00	
AJI	9.92	139	P	24 01.40	-1.8
			S	25 50.20	
TK04	9.93	146	P	24 03.00	-0.2
KTJ	10.00	140	P-	24 01.30	-2.7
			S	25 52.00	
			ScS	35 35.00	
KUM	10.06	183	P+	24 05.90	1.3
			eS	26 01.00	
SHJ	10.06	158	P	24 04.00	-0.6
			()	25 54.00	
TK03	10.16	147	P	24 05.00	-0.5
NGS	10.19	187	P	24 07.00	1.1
			iS	26 03.60	
ASZ	10.24	172	P	24 01.00	-5.4X
			eS	25 58.00	
TK02	10.27	148	P	24 06.00	-0.5
NOB	10.28	178	P	24 09.00	2.1
			eS	26 02.00	
OSH	10.29	139	P	24 05.00	-1.9
			eS	25 54.40	
CHO	10.30	131	P	24 05.20	-1.9

27d 17h

			S	25 54.20					S	30 10.00					eS	34 08.50					
KYS	10.33	135	eP	24 04.00	-3.3X	CD2	24.90	250	Pd	26 26.00	-1.0	FRU	40.83	290	Pd	28 40.70	-0.2				
KUMJ	10.33	182	P	24 08.00	0.6				sP	29 00.00					iS	34 13.00					
FKJ	10.34	191	P	24 09.00	1.6				S	30 09.00					isS	37 11.00					
			S	26 06.50					ScS	36 22.00		ANM	41.09	36	ePc	28 43.80	1.2				
TK01	10.37	149	P	24 06.00	-1.4	HKC	24.97	220	P	26 27.00	-0.5	KSH	41.12	285	iPd	28 44.00	0.7				
TMS	10.38	137	P	24 06.00	-1.9	GYA	25.88	239	Pd	26 34.00	-1.8				PP	30 35.00					
			S	25 57.70					SP	29 11.00					S	34 20.00					
NEM	10.50	83	P	24 07.00	-2.1				S	30 22.00					ScS	37 47.00					
			eS	26 01.00		CVP	26.34	201	ePc	26 40.00	0.3	MNI	41.65	190	ePc	28 48.30	0.8				
MYZ	10.94	179	P	24 14.00	0.4	UER	26.45	302	Pd	26 39.20	-1.1	MUR	43.02	284	P	28 58.90	0.1				
			eS	26 14.00					iS	30 34.20					iS	34 46.70					
TYV	11.15	40	P	24 16.00	0.4	SZP	26.86	203	eP	26 46.00	1.8	ANR	43.16	288	Pd	28 59.30	0.0				
			iS	26 16.80			1.0s		228.00nm		5.7mb				iS	34 47.00					
KAG	11.30	183	P	24 20.50	3.3X				e	28 15.00		NAM	43.56	289	Pd	29 02.40	0.1				
			S	26 36.00		BAG	27.91	202	P	26 51.00	-2.6				eS	34 54.00					
SHO	11.37	80	Pd	24 16.70	-1.2	TIK	28.86	358	Pc	26 59.50	-1.6	FRG	43.71	288	Pd	29 03.20	-0.5				
			iS	26 18.20					esP	29 34.00					epP	29 55.00	246kmX				
BJI	11.66	261	iPd	24 21.00	0.1				eS	31 10.00					S	34 48.70					
			iS	26 24.00		KMI	29.33	242	iPd	27 05.00	-1.0				iS	35 14.00					
			ScS	35 37.00					PP	28 37.00		KHO	45.11	284	Pc	29 14.70	0.0				
KAGJ	11.67	182	P	24 19.00	-2.0				SP	29 42.00					S	35 12.40					
HJJ	11.85	143	P	24 20.00	-2.8				iS	31 19.00		KHE	45.28	347	Pc	29 15.00	-0.3				
			S	26 30.30					SS	34 14.00					iS	35 13.00					
NKL	12.06	28	P	24 24.50	-0.3				ScS	36 38.50		GAR	45.31	287	P	29 15.30	-0.9				
			iS	26 31.50		MAN	29.45	200	eP	27 07.80	1.1				iS	35 17.30					
KUR	12.19	73	Pd	24 27.00	0.8				eS	31 28.50		NDI	45.33	270	iP	29 16.00	-0.2				
			iS	26 38.00		SMY	30.01	56	iPc	27 12.10	0.9		0.8s		478.00nm		6.1mb				
REI	12.30	73	P	24 27.70	0.4	CNP	30.79	193	ePc	27 18.80	0.7		Z 20s		3.55um		5.3Msz				
			iS	26 41.10			0.9s		1070.00nm		6.5mb		N 20s		1.06um						
OKH	13.20	32	Pc	24 35.30	-1.0	ELT	31.31	305	Pd	27 21.40	-0.8		E 20s		2.13um						
			iS	26 55.30					eS	31 40.40					iPP	29 27.50					
TUP	13.76	331	Pd	24 41.70	-0.3	WMQ	31.42	287	iPd	27 23.50	0.1				iPPP	31 14.00					
			S	27 07.20					PP	28 55.50					iS	35 15.00					
SSE	14.23	218	Pd	24 49.00	2.2				S	31 54.00		TTA	45.36	38	iP	29 17.00	0.9				
			S	27 17.00					SS	34 33.00		SVE	45.54	313	Pd	29 17.00	-0.5				
NJ2	14.60	226	iPd	24 51.00	0.5				iScS	36 50.50					epP	30 56.50	539km				
			SP	26 44.00		GUMO	31.47	154	e(P)	27 25.20	1.3				isP	32 00.00					
			iS	27 20.50					e(S)	31 54.00					iS	35 18.00					
			ScP	32 06.00		GUA	31.53	154	e(P)	27 23.50	-0.9	MNL	45.55	278	eP	29 16.90	-1.0				
			ScS	35 46.50			0.7s		115.00nm		5.6mb	NIL	45.66	278	iPd	29 18.20	-0.6				
TIY	15.25	257	iPd	24 58.00	1.0	PLP	32.06	192	eP	27 29.00	0.2	BKB	45.84	200	ePc	29 23.00	2.8				
			iS	27 36.00			0.7s		208.00nm		5.9mb		1.0s		776.00nm		6.2mb				
BTO	16.01	269	iPd	25 05.00	0.5	UKR	32.31	301	eP	27 31.00	0.4	IMA	45.88	33	iPc	29 20.60	0.4				
			SP	27 13.50					iS	32 03.00		LAH	45.92	275	eP	29 17.50	-3.3X				
			S	27 50.00		NVS	33.09	308	Pd	27 36.90	-0.2	JAY	45.98	167	ePd	29 21.50	0.1				
			ScS	35 48.00					iS	32 15.00			1.0s		76.20nm		5.2mb				
WHN	18.26	233	iPd	25 27.50	1.3				iS	32 17.00		KUL	46.19	286	Pd	29 22.10	-0.7				
			SP	27 40.00		NRI	34.52	335	Pd	27 46.60	-2.4				iS	35 27.80					
			iS	28 24.00					isP	30 24.00		AAI	46.43	184	ePc	29 24.50	-0.2				
			iScS	35 55.00					iS	32 33.00		DSH	46.59	287	Pd	29 25.20	-0.7				
BOD	18.44	330	Pd	25 26.90	-0.8	LSA	34.57	261	iPd	27 52.10	1.7				iS	35 35.20					
			S	28 28.40					S	32 44.10		IPM	46.61	224	iPd	29 24.50	-1.6				
SKR	18.66	57	Pc	25 28.60	-1.3	PPR	34.74	202	ePd	27 53.00	1.6		0.9s		484.00nm		8.0mb				
			eS	28 37.50			1.0s		758.00nm		6.3mb				i	30 47.50	422kmX				
YAK	19.19	358	Pc	25 33.60	-1.2	CGP	34.77	191	ePc	27 49.70	-1.8				i	31 07.10					
			iS	28 39.80			1.0s		2170.00nm		6.7mb				i	33 47.80					
ANP	19.38	207	Pc	25 41.00	4.1X	PPH	35.17	189	ePd	27 55.00	0.1	ARU	46.73	313	Pd	29 26.50	-0.1				
			S	28 48.00			0.7s		215.00nm		5.9mb				epP	31 08.00	550km				
XAN	19.54	251	iPd	25 38.20	-0.1	SEM	35.21	300	Pd	27 54.30	-0.6				esP	32 05.50					
			SP	28 00.50					ipP	29 30.70	535km				iS	35 35.50					
			iS	28 46.00					isP	30 30.20		PSH	46.84	280	eP	29 28.00	0.2				
			ScS	35 58.00					eS	32 46.80					eS	35 40.00					
TATO	19.58	207	iP	25 41.10	2.4	DAV	35.99	190	P	28 04.00	2.3	SAM	47.35	289	Pd	29 30.80	-0.8				
IRK	20.35	307	Pd	25 46.00	0.3				eS	33 04.00					iS	35 45.00					
			esP	28 06.00		ILT	36.28	29	Pd	28 03.00	-0.5	KLM	47.57	222	ePc	29 34.90	1.5				
			eS	29 00.00					esP	30 41.00		KGM	47.72	219	ePd	29 35.00	0.5				
ZAK	20.53	301	Pd	25 47.60	0.3				eS	33 03.00			1.0s		27.70nm		4.7mb X				
			S	29 02.00					esS	35 52.00					e	31 16.30	544km				
TCU	20.62	208	P	25 51.40	3.1X	CHG	36.31	239	iPd	28 01.60	-2.7				e	33 55.00					
			S	29 08.50			1.2s		330.00nm		5.8mb	KDC	48.25	44	iPc	29 38.00	-0.1				
QZH	20.70	214	iPd	25 48.50	-0.5				i	33 11.20		KAAO	48.27	282	iPd	29 37.10	-1.8				
			iS	29 03.00					eS	36 28.00					i	31 20.50	558kmX				
PET	20.85	51	Pc	25 50.00	-0.2	CHTO	36.31	239	iPd	28 04.30	0.0	COL	48.51	34	iPc	29 40.90	0.9				
			sP	28 12.00		SHIO	36.46	255	iPd	28 05.20	-0.4				e	31 23.00	547km				
			eS	29 04.00		BDT	37.45	237	iPd	28 14.50	0.9				i	36 03.00					
MGD	20.97	28	Pc	25 51.00	-0.2		0.6s		372.00nm		6.2mb				e	39 06.00					
			iS	29 10.00		PRZ	38.32	288	Pc	28 21.40	0.7	FBA	48.51	34	iPc	29 40.50	0.5				
LZH	22.15	261	iPd	26 03.00	0.6				iS	33 36.60		KVG	48.56	154	eP	29 42.00	1.1				
			SP	28 29.00		TLG	38.77	290	Pd	28 25.40	1.1	PMR	48.80	39	iPc	29 41.80	-0.3				
			S	29 29.00					sP	31 08.00			1.5s		570.00nm		5.9mb				
			iScS	36 11.00					iS	33 45.00					e	34 00.00					
MOY	22.21	304	Pd	26 02.40	-0.1				esS	36 40.00		TSI	48.80	226	ePc	29 44.50	1.8				
SEY	23.56	24	Pc	26 15.40	0.8	KKM	39.02	204	iPd	28 28.90	2.4		0.9s		404.00nm		5.9mb				
			sP	28 43.90			0.9s		411.00nm		6.0mb	BSI	48.92	231	ePd	29 42.00	-1.6				
			iS	29 51.90					e	33 20.40		MKS	49.05	196	iPc	29 41.50	0.0				
GZH	24.70	223	iPd	26 24.60	-0.6	NRN	40.36	287	eP	28 37.00	-0.5	PSI	49.29	225	iPd	29 45.50	-0.8				

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	1.0s	366.00nm			5.9mb					iS	38	06.80			KER	63.71	293	iPd	31	23.30	-2.2
MDG	49.68	161	P	29	50.50	1.4	HNR	58.28	146	ePc	30	51.00	1.1					i	31	25.00	6kmX
RAB	50.54	153	Pc	29	50.00	-5.4X		0.9s	151.00nm			5.3mb						i	31	37.40	
HYB	51.17	257	ePd-	29	59.00	-1.2				eS	32	40.00			ISQ	63.73	171	Pd	31	25.20	-0.2
			e	30	16.50		KNA	58.38	183	Pd	30	49.80	-0.6		ANN	63.84	308	Pd	31	24.00	-1.9
			e	30	54.00		BAK	58.53	298	eP	30	50.00	-1.4					ipP	33	17.00	559kmX
			ePcP	31	02.00					S	38	14.00						iS	39	15.00	
			e	31	28.50		OBN	58.60	318	iPd-	30	50.30	-1.3		UPP	64.11	329	P	31	25.70	-1.7
			epP	31	44.00	557kmX		1.0s	670.00nm			5.9mb						i	31	28.60	9kmX
			ePP	32	01.00					ePP	33	05.00						iS	39	19.00	
			esP	32	45.00					eSP	33	40.00						iScS	40	21.00	
			eScP	34	08.00					ePPP	34	40.00			CTA	64.16	164	P	31	28.20	0.1
			esPP	34	44.00					iS	38	11.00						i	32	11.00	
			eS	36	35.00					iScS	39	40.00						ipP	33	22.00	563kmX
			eScS	38	48.00					eSS	41	24.00			CTAO	64.16	164	iP	31	28.10	0.0
			esS	39	40.00					eSS	42	12.00						i	32	11.50	185kmX
			eSS	40	28.00					i	43	24.00			MBL	64.58	192	Pd	31	30.10	-0.6
PPI	51.27	221	eP	30	00.70	-0.1				iSSS	45	38.00			APO	65.00	331	P	31	31.72	-1.3
	1.0s	179.00nm			5.4mb		MAK	58.74	301	Pd	30	50.00	-2.8		SLL	65.26	331	P	31	33.42	-1.3
LAT	51.34	160	eP	30	02.00	0.7				ipP	32	40.20	560kmX		NC3	65.37	333	iPd	31	34.50	-0.8
QUE	52.03	278	iPd	30	05.20	-1.3				iS	38	08.00						e	31	57.90	92kmX
			ePcP	31	04.40		SUF	59.10	329	P	30	53.40	-1.5					e	39	33.00	
			epP	31	49.60	548km	DAG	59.13	352	iPc	30	54.10	-0.9		HFS	65.37	331	P	31	34.00	-1.3
			eS	36	49.20			0.5s	225.00nm			5.8mb				0.5s	231.00nm			6.0mb	
			eScS	38	55.00					i	31	15.00	82kmX					e	13	00.00	
TRT	53.12	203	iPc	30	13.30	-0.8				i	31	35.00			NB2	65.60	332	P	31	35.80	-1.0
	1.1s	150.00nm			5.2mb					iS	38	19.00			SIM	65.63	309	Pd	31	35.60	-1.6
KUPT	53.23	189	eP	30	14.00	-0.9	SHE	59.22	299	Pd	30	55.00	-1.0					epP	33	28.00	549km
	0.5s	300.00nm			5.9mb					iS	38	23.00						iS	39	37.30	
			e(S)	36	55.00		GRO	59.66	303	Pd	30	57.00	-1.8		TBY	65.72	331	P	31	35.93	-1.5
PCA	53.39	39	iPc	30	16.20	0.4				iS	38	24.00			ASP	66.27	177	Pd	31	41.00	-0.2
LMG	53.80	159	eP	30	19.00	-0.1	TEH	60.03	292	ePd	31	01.00	-0.6					e	33	35.00	558kmX
POO	53.84	262	iPd	30	18.50	-0.9	LNK	60.11	297	Pd	31	00.50	-1.4		NAU	66.69	196	Pc	31	43.90	0.1
PMG	54.02	160	eP	30	21.00	0.5				eS	38	27.00			KVT	66.83	305	P	31	43.90	-0.8
APA	54.05	332	Pd	30	18.30	-1.9	UME	60.62	332	P	31	03.10	-1.8		KON	67.16	332	eP	31	46.00	-0.3
			isP	33	02.00					iS	38	37.00			KIS	67.26	314	Pc	31	45.50	-1.6
			iS	37	09.50		KRV	60.69	300	eP	31	04.00	-1.8					ipP	33	38.00	545km
ASH	54.12	291	P	30	21.00	-0.1				S	38	38.00						iS	39	55.00	
			S	37	20.00		PYA	60.90	304	Pd	31	05.00	-2.1		IAS	67.84	314	eP	31	43.00	-1.6
MHI	54.16	289	Pd-	30	20.80	-0.7				ipP	32	57.00	563kmX					eS	40	04.00	
			i	34	23.10					iS	38	40.00			LVV	67.94	318	Pd	31	50.70	-0.5
			iS	37	15.80		NUR	60.97	327	iPd	31	06.00	-1.2					iS	40	05.00	
VAN	54.29	291	ePd	30	21.00	-1.3		0.7s	302.00nm			5.8mb			KAS	68.02	306	P-	31	51.50	-0.4
			pP	32	07.20	551km		2 20s	0.80um			4.9Msz			MCW	68.04	43	iP	31	53.10	1.2
			S	37	18.20					i	31	32.00	105kmX		GDH	68.14	2	iPc	31	50.60	-1.4
GBA	54.52	255	Pc	30	23.20	-0.8				iPcP	31	43.40				0.9s	192.00nm			5.6mb	
	0.6s	368.00nm			5.9mb					iPP	33	29.00						iPcP	32	20.00	192kmX
ALE	54.69	2	eP	30	24.00	-0.5				iS	38	39.00						i	32	36.00	
	0.6s	327.00nm			5.8mb					iScS	39	56.00						iS	40	07.00	
KAT	54.92	293	Pd	30	26.50	-0.1				eSS	41	44.00						isS	43	27.00	
			epP	32	14.00	558kmX				e	42	44.00						i	44	39.00	
			esP	33	15.00					eSSS	46	48.00						iSSS	48	07.00	
			iS	37	23.00		MTA	61.09	301	Pd	31	07.20	-1.1		BIR	68.40	314	eP	31	55.00	1.0
			esS	40	40.00					ipP	32	57.00	548km					eS	40	12.50	
KEV	55.07	336	Pd	30	26.00	-1.3				iS	38	40.00			BAC	68.59	314	eP	31	52.00	-3.2X
			i	30	27.90		GRS	61.32	299	Pd	31	08.60	-1.5					eS	40	10.00	
			i	30	38.40					ipP	32	59.00	551km		GMW	68.80	44	iP	31	57.90	1.4
			epP	32	14.00	561kmX				iS	38	47.60			WBN	68.81	185	Pc	31	57.40	0.8
			isP	33	12.20		STE	61.74	301	Pd	31	11.60	-1.1		COP	69.02	328	iP	31	57.00	-0.5
			iScP	34	25.00					ipP	33	01.60	547km			0.9s	538.00nm			6.1mb	
			iS	37	26.00					iS	38	51.60						iS	40	19.00	
			iScS	39	13.50		BKR	61.88	302	Pd	31	13.20	-0.4					iScS	41	03.00	
			esS	40	40.00					ipP	33	04.20	553km		VRI	69.13	314	eP	31	57.00	-1.5
			eSS	41	12.00					iS	38	56.20			AKU	69.19	347	eP	32	02.90	4.5X
MTN	55.45	180	Pc	30	29.70	-0.7	AKH	62.08	302	Pc	31	15.00	0.0		MGN	69.23	307	P	31	59.30	0.1
TGI	56.11	286	iPd	30	34.50	-0.8	NAK	62.09	299	Pc	31	16.30	1.5		BFW	69.27	45	iP	32	00.50	1.2
SOD	56.40	333	Pd	30	35.60	-1.0				S	38	54.30			UZH	69.58	318	ePc	31	59.00	-2.0
			iPcP	31	26.60		ERE	62.12	300	Pd	31	15.00	-0.1					iS	40	23.00	
			isP	33	21.90					ipP	33	05.00	545km		KRA	69.75	320	iPd	32	01.30	-0.7
			iScP	34	31.00					iS	38	59.00				1.0s	460.00nm			6.0mb	
SIT	57.06	41	iPc	30	42.60	1.4	TAB	62.12	297	iPd-	31	15.00	-0.2			Z 15s	2.00um			5.5MszX	
TRO	57.50	337	iP	30	42.70	-1.3	LEN	62.20	301	P	31	16.00	0.2			N 15s	1.70um				
KJF	57.70	330	Pd	30	44.50	-1.0				iS	39	00.00				E 15s	1.20um				
			i	30	46.30		ABS	62.29	302	Pd	31	16.00	-0.1					i	32	03.30	6kmX
			ipP	32	32.00	545km				ipP	33	07.00	551km					i	32	08.70	
			isP	33	31.90					eS	39	00.00						i	32	13.80	
			iScP	34	37.00		ZUG	62.45	304	eP	31	17.00	-0.1					iS	40	24.00	
			eS	38	00.00					iS	39	02.00						m	43	46.00	
			eScS	39	32.00		YKA	62.56	29	P	31	18.20	0.7		MLR	69.79	314	Pd	32	02.50	-0.1
			esS	41	08.00		WRA	62.57	177	Pd	31	17.20	-0.7		SHW	69.97	45	iP	32	04.80	1.2
			e	41	52.00			0.9s	78.10nm			5.1mb						ePP	33	59.00	
MOS	57.80	318	Pd	30	44.00	-2.3	WB2	62.57	177	Pd	31	17.10	-0.8					e	40	36.70	
			ipP	32	32.00	548km				e	33	10.70	568kmX		NIE	70.00	320	iPd	32	03.00	-0.6
			isP	33	31.00					eS	39	09.80				0.9s	336.00nm			5.9mb	
			iS	38	00.00		SOC	63.16	305	Pd	31	20.10	-1.5		KOU	70.08	147	iPc	32	05.00	0.8
KIR	58.12	335	P	30	47.00	-1.3				epP	33	11.10	548km		MEK	70.13	192	Pd	32	04.00	-0.4
			i	30	48.70	6kmX				eS	39	08.00			MDB	70.19	315	eP	32	08.00	3.3X

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SPC	70.20	319	P	32	04.40	-0.5				ipP	34	07.30	502kmX				iS	41	21.00		
CJR	70.21	316	eP	32	05.00	0.1				i	34	21.00					e	44	40.00		
CMP	70.42	314	ePd	32	06.00	-0.1				isP	35	07.00		BHG	74.68	322	iPd	32	30.80	0.5	
COR	70.47	47	iPc	32	08.00	1.7	VIE	72.69	321	Pd	32	20.00	0.9	AMM	74.68	41	iPc	32	31.80	1.2	
JOS	70.53	319	iPd	32	05.80	-0.8				i	32	22.00	6kmX				i	34	27.50	546km	
	1.4s	90.00nm				5.1mb				i	33	33.00					e	35	19.00		
KSP	70.87	323	eP	32	07.50	-1.1				PP	35	11.00		TNS	74.70	326	eP	32	29.90	-0.6	
			i	32	08.50	3kmX				SP	41	24.00					e	34	24.10	537km	
			iPP	34	56.60					e	07	00.00		EKA	74.78	335	Pd	32	31.10	0.4	
			eS	40	38.00		SOP	73.00	320	Pd	32	21.00	0.1		1.0s	230.00nm				5.6mb	
ISK	70.96	309	P	32	08.00	-1.2				epP	34	21.00	577kmX	ESK	74.81	335	iP	32	31.00	0.1	
BRL	71.00	325	eP	32	10.50	1.3	MOX	73.06	325	iP	32	21.50	0.3	ORV	74.84	50	iPc	32	32.00	0.6	
IST	71.00	309	P	32	08.00	-1.5				i	32	24.00	8kmX	BUT	74.92	40	iPc	32	33.40	1.5	
BRN	71.08	325	ePc	32	10.50	0.8				S	41	00.00					e	34	28.00	538km	
NEW	71.14	41	iPc	32	11.10	0.9				SKS	41	35.00		STK	75.00	171	Pc	32	33.40	1.4	
			ePP	34	03.70					sS	44	30.00					e	34	31.00	557kmX	
			e	59	52.00					SS	46	00.00		FUR	75.06	323	iPd	32	33.10	0.6	
DMK	71.20	310	P	32	09.80	-0.9				e	06	48.00					i	32	35.70	8kmX	
PSZ	71.24	319	P	32	10.50	-0.4				e	08	18.00					eS	41	25.00		
REY	71.24	348	eP	32	12.10	1.7	BEO	73.11	316	P	32	20.90	-0.6	LRM	75.12	40	iPc	32	34.50	1.4	
CTT	71.26	309	P	32	07.00	-4.0X	HOF	73.19	324	eP	32	21.90	-0.1				i	34	29.50	540km	
YKM	71.39	40	eP	32	13.00	1.2				i	32	24.60	9kmX				e	35	26.20		
BKT	71.51	308	P	32	07.00	-5.7X	VTS	73.20	313	Pd	32	22.20	0.1	KLB	75.13	192	eP	32	33.00	0.2	
ALT	71.65	306	P-	32	12.50	-0.9	KHC	73.32	323	iPd	32	22.90	0.1	LJU	75.15	320	eP	32	32.50	-0.4	
RXF	71.67	40	iPc	32	14.30	0.9		1.3s	326.00nm				5.7mb				epP	34	28.50	547km	
PVL	71.76	312	Pd	32	14.00	0.2		N 13s	0.80um								eS	41	24.50		
LDM	71.86	40	iPc	32	15.30	0.8		E 14s	0.80um					ENN	75.30	328	eP	32	33.50	-0.1	
BRG	71.89	324	iPd	32	14.20	-0.3				i	32	25.20	7kmX				e	32	36.00	8kmX	
			i	32	17.00					PP	34	18.00					e	34	30.00		
			PcP	32	31.00					S	41	06.00					e	35	25.00		
			pP	34	09.00	547km	WIT	73.41	329	eP	32	24.00	0.9	MEM	75.39	327	P	32	33.50	-0.6	
			PP	35	04.00					e	32	26.00	6kmX				pP	34	29.60	546km	
			S	40	51.00		WDC	73.56	50	iPc	32	25.50	1.3	HPK	75.44	333	P	32	34.70	0.4	
			ScS	41	26.00		WET	73.62	323	iPd	32	23.70	-0.7	STU	75.50	325	ePd	32	34.00	-0.8	
			sS	44	14.00			1.4s	355.00nm				5.7mb		1.0s	50.00nm				4.9mb	
			SS	45	36.00		MSO	73.68	40	iPc	32	25.60	0.7	COO	75.52	162	eP	32	37.00	2.0	
			P'P'	59	54.00			1.2s	671.00nm				6.0mb				e	34	37.00	570kmX	
BUD	71.97	319	Pc	32	14.80	-0.2	EDU	73.72	336	eP	32	24.60	-0.2	OHR	75.52	313	iP	32	34.40	-0.7	
			ePcP	32	37.00			0.7s	226.00nm				5.8mb				i	35	34.20		
			epP	34	10.00	549km				i	35	16.60					iS	41	28.40		
			ePP	37	46.00		IZM	73.75	307	P	32	24.30	-1.1	BKS	75.58	52	iPc	32	36.90	1.5	
CLL	71.98	324	iPd	32	14.50	-0.4	KLG	73.85	189	Pd	32	25.50	-0.2				pP	34	32.00	540km	
			i	32	17.00		KMR	73.86	322	iPd	32	26.00	0.2	MUN	75.76	193	eP	32	36.00	-0.2	
			pP	34	09.00	545km				i	33	11.00	187kmX	TRI	75.76	320	iP	32	34.70	-1.6	
			PP	35	08.00					i	35	15.00					e	34	32.30	555kmX	
			e	37	32.00					e	41	38.00					e	35	34.00		
			S	40	50.00		RMT	73.94	50	iP	32	28.20	1.9				e	41	39.90		
			SKS	41	16.00		GRF	73.94	324	ePd	32	26.70	0.5				e	44	46.00		
			ScS	41	26.00			0.9s	114.00nm				5.4mb				e	50	00.00		
			sSS	48	31.00			Z 20s	0.50um				4.8Msz	TIR	75.85	314	P	32	33.70	-3.2X	
			SSS	49	07.00					iPP	32	29.40		UCC	75.88	328	Pd	32	37.80	1.0	
			e	52	32.00					eS	41	17.00					i	32	39.10	4kmX	
			e	57	03.00					e	41	46.00					PcP	32	48.30		
			P'P'	59	58.00		MOA	73.95	321	ePd	32	32.00	5.7X	BUH	75.99	325	eP	32	37.40	-0.2	
SRO	72.08	319	iP	32	14.80	-0.8		1.4s	447.00nm				5.8mb	WCN	75.99	49	iP	32	39.40	1.5	
			e	33	11.00					i	32	34.70	9kmX	GWF	76.01	326	P-	32	37.60	0.0	
			pP	34	07.00	531kmX				PP	34	27.70		OGA	76.15	322	iPd	32	38.40	-0.3	
			i	34	56.00					eS	41	28.30			1.7s	454.00nm				5.6mb	
			S	40	54.00		WTS	73.99	328	iPc	32	26.30	0.0	MHC	76.28	52	iPc	32	40.80	1.3	
TIM	72.08	316	eP	32	15.00	-0.7		0.8s	245.00nm				5.8mb				pP	34	37.00	545km	
			ePP	35	08.40					e	32	28.50	7kmX				sP	35	48.00		
			iS	40	56.40					e	34	22.00		ARN	76.34	52	iP	32	41.90	2.2	
EDC	72.11	309	P	32	14.70	-1.3				e	35	18.00					ePP	34	35.80		
VWMM	72.18	47	iP	32	18.10	1.5	ELO	73.99	336	eP	32	26.40	0.0	DOU	76.35	328	P	32	39.30	-0.1	
PRA	72.26	323	iP	32	17.00	0.4		0.9s	264.00nm				5.8mb				i	32	41.40		
PRU	72.27	323	iPd	32	16.30	-0.4				i	35	18.40					pP	34	35.90	547km	
	1.5s	324.00nm				5.6mb	EBH	74.12	336	iPc	32	27.20	0.1				S	41	39.00		
	Z 12s	1.50um				5.5MszX		0.8s	167.00nm				5.6mb				sS	45	09.00		
	N 14s	0.80um								i	35	18.20		CTI	76.49	321	P-	32	39.00	-1.4	
	E 14s	0.50um					MIN	74.24	49	iPc	32	29.20	1.0				i	34	36.00	549km	
			i	32	18.40	7kmX				pP	34	24.00	541km				e	41	36.00		
			PP	34	15.50		EDI	74.30	335	eP	32	27.80	-0.2	NWAO	76.52	192	eP	32	41.00	0.6	
			iPP	35	07.30			0.6s	45.00nm				5.1mb	JAS	76.55	51	iPc	32	42.30	1.5	
			iS	40	54.00					e	35	20.20					pP	34	38.00	541km	
			SS	44	19.00		EBL	74.38	335	ePc	32	28.80	0.3				sP	35	50.00		
DIM	72.27	311	eP	32	17.00	0.2		0.9s	229.00nm				5.7mb				P'P'	02	10.00		
BCK	72.40	305	P	32	16.10	-1.7				i	35	21.00		BMN	76.58	47	iPc	32	43.00	1.9	
SSR	72.42	315	eP	32	17.00	-0.6	VAY	74.42	312	iP	32	28.00	-1.0				ePP	34	38.90		
NOU	72.52	146	iPc	32	20.00	1.7				i	32	30.40	8kmX				e	37	23.50		
FRB	72.57	9	iPc	32	18.00	-0.1	EAB	74.42	336	iPc	32	28.90	0.2				e	02	09.50		
	0.5s	446.00nm				6.3mb		0.9s	341.00nm				5.8mb	CDF	76.59	325	iPd	32	40.90	0.0	
FHC	72.60	50	iPc	32	20.70	1.9				i	35	21.20					PP	34	37.80		
			pP	34	15.00	542km	EAU	74.44	335	iPc	32	29.00	0.1	ECH	76.79	325	P-	32	41.80	-0.1	
KDZ	72.67	311	Pd	32	19.00	-0.1		0.6s	188.00nm				5.8mb	SAO	76.80	52	iPc	32	43.20	1.1	
BRS	72.68	160	Pd	32	19.90	0.7				i	35	21.40					pP	34	39.00	541km	
			i	32	34.50		SKO	74.58	313	iPd	32	30.00	0.1	ZUL	76.84	324	P	32	41.00	-1.2	
			ePP	32	47.00					i	32	31.80	6kmX	AFI	76.87	123	P	32	43.00	0.2	

27d 17h

			pP	34 45.00	579kmX
HLW	76.94	299	iPd	32 41.00	-2.0
			iS	41 42.00	
DMU	77.15	336	iPc	32 43.90	0.2
	0.9s	370.00nm			5.8mb
BAF	77.16	325	P-	32 43.90	-0.1
BBS	77.23	325	P	32 43.00	-1.3
BSF	77.25	325	iPd	32 44.20	-0.3
IMW	77.26	41	iP	32 47.10	2.2
HAU	77.30	326	iPd	32 44.30	-0.4
	0.9s	103.00nm			5.3mb
SAL	77.34	322	P	32 44.00	-0.8
			i	34 50.00	602kmX
DDK	77.42	336	eP	32 45.00	-0.1
	1.0s	310.00nm			5.7mb
MNV	77.49	49	iPc	32 47.60	1.5
			pP	34 43.00	538km
DKM	77.51	335	iPc	32 45.60	-0.1
	0.7s	240.00nm			5.7mb
DLE	77.57	336	iPc	32 46.00	0.1
	0.8s	320.00nm			5.8mb
FRI	77.64	51	iPc	32 47.90	1.3
			pP	34 44.00	541km
			sP	35 59.00	
PRI	77.68	52	iPc	32 49.10	2.1
			pP	34 45.00	540km
			sP	36 00.00	
DCN	77.74	336	iPc	32 47.20	0.3
	0.7s	370.00nm			5.9mb
ADE	77.77	174	Pd	32 48.70	1.5
NEC	77.83	325	P	32 46.50	-1.0
EUR	77.93	47	iP	32 50.00	1.5
PCN	78.15	322	P	32 50.50	1.3
BEI	78.17	43	iP	32 51.10	1.4
TNP	78.26	49	iP	32 52.00	1.8
DIX	78.36	324	P	32 50.00	-0.6
PRG	78.36	319	P	32 53.00	2.6
			iS	41 59.00	
YOU	78.37	166	Pc	32 52.20	1.9
			epP	33 26.20	136kmX
			ePP	33 48.20	
			ePcP	35 51.30	
PRT	78.39	320	P	32 50.00	-0.5
			ipP	33 18.50	111kmX
			iS	42 02.50	
			iSS	44 08.00	
FIR	78.39	320	Pc	32 50.50	0.0
			S	42 00.00	
DUI	78.42	317	P-	32 51.20	0.5
			e	34 48.00	544km
			e	36 01.00	
			eS	42 10.00	
AQU	78.43	318	P	32 51.50	0.7
			i	34 49.00	548km
			e	42 40.50	
ECB	78.44	335	eP	32 50.80	0.2
	1.0s	45.00nm			4.9mb
ECP	78.47	335	eP	32 50.00	-0.7
	0.8s	25.00nm			4.7mb X
BVT	78.54	321	P	32 50.50	-0.7
MNS	78.76	318	P-	32 52.20	-0.2
			ePP	35 46.00	
			e	42 08.00	
BDW	78.77	41	iPc	32 53.80	1.0
			ePP	34 49.30	
			eSP	35 45.60	
			e	37 35.60	
			e	42 10.00	
			e	02 19.30	
CSI	78.87	315	P	32 53.80	0.7
ROI	78.88	314	P	32 54.40	1.2
LOR	78.90	327	iPd	32 53.00	-0.2
			PP	34 50.50	
DUG	79.08	45	iP	32 56.00	1.6
LBF	79.08	326	eP	32 53.80	-0.3
RMP	79.18	318	P+	32 55.50	0.8
			ePP	35 51.00	
			iS	42 12.00	
SSF	79.21	327	iPd	32 54.80	0.1
PNI	79.31	323	P	32 54.50	-0.8
FLN	79.36	330	iPd	32 55.20	-0.3
SSC	79.37	330	iPd	32 55.00	-0.5
SMF	79.41	326	iPd	32 55.60	-0.2
AVF	79.49	327	iPd	32 56.20	0.0
CAN	79.50	165	Pc	32 58.20	2.0
			ePP	33 39.20	
			iPcP	35 59.40	
ROB	79.55	322	P	32 55.00	-1.6
GLR	79.56	48	iP	32 58.30	1.4
			ePP	34 54.20	
GRR	79.81	330	iPd	32 57.60	-0.2
VAL	79.84	337	iPd	32 59.90	2.0
PYR	79.90	52	iP	33 00.20	1.5
			ePP	34 55.60	
LPF	80.18	330	iPd	32 59.90	0.2
MZF	80.27	327	iPd	33 00.70	0.4
WAM	80.32	166	Pc	33 02.70	2.3
			ePcP	35 04.60	
TCF	80.36	327	iPd	33 01.10	0.3
CVF	80.44	321	iPd	33 00.90	-0.3
	0.8s	91.30nm			5.3mb
OBO	80.47	277	iPd	33 03.00	1.3
PAS	80.53	52	P+	33 03.00	1.2
LSF	80.67	327	eP	33 02.50	0.2
FRF	80.67	323	iPd	33 01.90	-0.5
TDD	80.87	278	iPd	33 05.10	1.3
ATA	80.88	277	iPd	33 05.10	1.2
LRG	80.88	323	eP	33 03.30	-0.1
LMR	80.91	323	iPd	33 03.30	-0.3
MFF	81.03	328	iPd	33 04.40	0.2
			PP	35 03.00	
ARO	81.10	277	iPd	33 06.80	1.7
			i	35 04.00	541km
TOO	81.11	169	eP	33 06.00	1.5
			e	35 07.00	563kmX
DAF	81.28	278	iPd	33 07.30	1.4
SGH	81.31	277	iPd	33 07.80	1.6
KSU	81.40	278	iPd	33 07.90	1.3
MEI	81.40	314	P	33 06.00	-0.2
RJF	81.45	327	eP	33 06.80	0.5
CAF	81.53	326	iPd	33 07.60	0.8
			PP	35 06.10	
NUE	81.97	125	P	33 12.00	2.8
LFF	82.06	327	eP	33 10.30	0.9
ERC	82.09	316	P	33 10.00	0.3
LPO	82.09	327	iPd	33 10.40	0.8
GCA	82.11	46	eP	33 10.60	0.6
			ePP	35 09.80	
RMU	82.36	46	iP	33 12.30	1.0
			ePP	35 10.80	
			e	02 10.70	
GOL	83.15	40	iPc	33 16.80	1.5
			ePP	35 14.60	
			eSP	36 11.30	
			e	36 38.50	
			e	02 11.70	
GLD	83.18	40	iP	33 17.60	2.2
	1.0s	838.00nm			6.2mb
			ePP	35 15.20	
GLA	83.24	51	iP	33 17.40	1.8
			ePP	35 14.60	
MLS	83.55	326	eP	33 17.50	0.5
			i	33 19.70	7kmX
			eS	42 50.00	
EPF	83.80	326	iPd	33 19.10	0.9
			PP	35 17.70	
MBZ	84.11	316	eP	33 28.00	8.2X
KCHT	84.14	317	eP	33 20.00	0.0
ZGN	84.63	316	eP	33 22.00	-0.4
LGR	85.42	328	iPc	33 29.30	3.2X
			iS	43 01.00	
EBR	85.57	325	eP	33 29.00	2.2
			e	43 01.00	
			eS	43 11.00	
TUC	86.06	49	iPc	33 31.10	1.7
			ePP	35 29.80	
			e	37 04.60	
ALO	86.34	44	ePc	33 32.50	1.6
	1.5s	375.00nm			5.9mb
			ePP	35 31.00	
TAU	86.61	168	eP	33 35.00	3.6X
			e	35 33.00	536km
			e	35 38.00	
TOL	88.23	327	iPd	33 42.00	2.5
	1.2s	8.00nm			4.4mb X
			i(PP)	34 21.00	538km
			i	35 41.00	
			iSKS	43 17.00	
			iS	43 36.00	
			i(PS)	47 13.00	
			eSS	49 40.00	
			eSSS	52 50.00	
ACO	88.47	38	iPc	33 42.50	1.9
	1.8s	3440.00nm			6.9mb X
			ePP	35 41.70	
PTO	88.86	331	P	33 44.00	1.7
			eS	43 19.00	
			eSKS	43 40.00	
OTT	88.89	19	iPc	33 42.10	-0.3
	0.9s	183.00nm			6.0mb
MNT	89.26	17	iPc	33 44.60	0.5
	1.4s	410.00nm			6.2mb
HNME	89.71	13	eP	33 46.60	0.4
LUB	89.72	42	eP	33 48.00	1.5
JKM	89.80	15	eP	33 46.60	0.0
QZO	89.87	39	iPc	33 48.00	0.9
	1.5s	505.00nm			6.2mb
			ePP	35 47.00	
			e	36 43.50	
PNY	89.91	17	iP	33 47.30	0.2
KRP	89.93	146	iPc	33 50.00	3.1X
			pP	35 51.00	548km
			(SKS)	43 27.00	
DVT	90.08	16	eP	33 48.50	0.6
CRT	90.34	326	iPc	33 51.40	2.1
			iS	43 25.50	
IN1	90.44	27	iPc	33 50.50	1.0
SIO	90.53	37	iP	33 51.90	1.8
			ePP	35 52.70	
WTZ	90.58	146	eP	33 50.00	0.1
TUL	90.62	36	iPc+	33 51.90	1.4
	1.0s	476.00nm			6.4mb
	Z 20s	0.95um			5.2Msz
	N 20s	0.66um			
	E 20s	0.30um			
			ePP	35 53.00	
BNH	90.63	16	iP	33 51.50	1.1
AN12	90.66	26	iPc	33 51.70	1.1
IN2	90.67	28	iPc	33 51.80	1.2
RLO	90.74	36	iPc	33 52.30	1.2
			ePP	35 51.90	
AN9	90.75	26	iPc	33 52.10	1.1
AN11	90.82	27	ePc	33 52.30	0.9
AN7	90.85	26	iPc	33 52.50	1.0
GBO	90.93	36	iPc	33 40.20	-11.8X
			ePP	35 53.10	
FVM	91.05	32	iPc	33 53.50	1.0
			ePP	35 53.60	
			e	37 09.30	
			e	37 38.30	
			e	43 30.30	
AN3	91.12	26	iPc	33 53.70	1.0
AN8	91.24	26	iPc	33 54.30	1.0
IVT	91.27	17	eP	33 54.40	1.0
AN4	91.39	26	iPc	33 55.00	1.0
GNZ	91.57	145	iP	33 58.00	3.5X
COB	91.58	150	iP	33 55.00	0.5
			pP	35 55.00	540km
IN3	91.62	28	iPc	33 56.00	1.0
IN4	91.64	27	iPc	33 55.90	0.8
DON	91.95	32	iP	33 58.00	1.4
MNG	92.22	148	iPc	33 57.60	0.2
			pP	36 58.00	
LNX	92.35	18	eP	33 59.80	1.4
MSZ	93.11	155	iP	34 08.90	7.5X
			pP	36 13.00	564kmX
BCT	93.13	18	eP	34 02.20	0.3
JCT	93.26	42	iPc	34 04.00	1.2
			e	36 04.00	540km
			iS	43 46.00	
RHP	93.30	153	iP	34 04.80	2.4
			pP	36 09.00	564kmX
IFR	94.13	325	iP	34 08.50	1.6
			i	36 08.00	537km
			i	37 54.00	
ORT	95.14	28	eP	34 12.10	0.9
BLA	95.24	25	iP	34 11.90	0.2
			ePP	36 09.40	
			e	37 30.30	
AVE	95.27	326	iP	34 12.00	0.2
			i	38 25.00	
TKL	95.55	28	iP	34 13.60	0.5
PRM	97.47	28	iP	34 22.20	0.4
			ePP	36 24.80	
			e	38 18.30	
AVY	98.04	252	ePc	34 22.00	-2.7
BNG	103.34	289	ePdiff	34 49.00	0.7
	0.9s	6.90nm			5.4mb
KRI	109.70	265	ePdiff	35 26.00	9.5X
KRI	109.70	265	ePKP	39 17.60	0.9
			iPP	39 50.00	

TABLE 4-53

27d 17h

		iPKKP	50	35.00		
CIR	110.92	260	ePdiff	35	30.00	8.3X
CIR	110.92	260	ePKP	39	20.00	1.8
			ePP	40	03.00	
			iPKKP	50	30.00	
LPS	112.11	43	ePKP	38	55.00	-25.6X
BUL	112.53	263	ePdiff	35	32.00	3.0X
BUL	112.53	263	ePKP	39	23.00	1.6
			iPP	40	14.00	
			iPKKP	50	23.00	
KDS	115.47	320	ePKP	39	26.00	-1.0
SLR	116.20	258	iPKPc	39	27.80	-0.5
	0.7s	37.00nm				
			i	42	11.40	
KIC	116.80	309	ePKP	39	28.70	-0.9
KSR	117.28	259	ePKP	39	30.40	0.0
	0.5s	16.90nm				
			S	59	01.70	
MAW	121.49	205	ePKP	39	39.00	2.1
SBA	122.40	172	iPKP	39	39.40	1.0
			i	39	42.00	
WIN	122.46	268	ePKP	39	41.50	1.1
TOV	124.18	25	ePKP	39	43.30	-0.5
CAR	124.34	22	ePKPc	39	49.00	4.8X
	0.7s	53.00nm				
SDV	124.75	27	ePKPc	39	45.50	0.4
	0.5s	115.00nm				
TRN	125.49	15	iPKPc	39	45.70	-0.6
	0.8s	72.00nm				
CHN	126.52	34	ePKP	39	48.50	0.0
CER	126.95	256	ePKP	39	48.10	-0.5
	0.6s	61.30nm				
			e	42	15.10	
BOG	127.45	32	ePKP	39	51.00	0.5
			ePP	42	00.50	
BOCO	127.49	32	ePKP	39	49.50	-1.1
			#	41	58.00	
PSO	129.16	38	iPKP	39	54.50	0.7
SPA	132.68	180	ePKPd	39	54.00	-4.6X
	1.0s	150.00nm				
			#	42	34.00	
NVL	139.40	206	PKPd	40	03.00	-7.8X
NNA	140.76	47	iPKPd	40	09.30	-5.7X
	0.8s	97.80nm				
			eS	42	57.00	
HUA	141.60	45	PKP	40	14.00	-3.0X
			eP	40	44.00	
			eP	43	04.00	
PTO2	141.77	47	iPKPd	40	12.30	-4.4X
			eS	40	42.80	
PTO3	142.98	47	iPKPc	40	16.60	-2.2
SNA	144.05	205	ePKP	40	18.00	-0.9
SOB3	146.38	347	e(PKP)	40	25.00	0.5
			e	40	26.50	
ARE	147.29	43	iPKPd	40	27.50	1.3
			#	42	37.00	
ZOBO	148.74	38	PKP	40	29.20	0.4
LPB	148.98	38	PKPc	40	30.20	1.2
			i	40	35.10	
ANT	153.80	50	PKP	40	37.30	2.1
			i	40	45.20	
RDJ	159.55	345	PKP	40	40.00	-2.3
CYA	160.08	49	PKPc	40	43.00	0.2
			S	41	28.00	
VAO	160.12	355	PKP	40	45.40	2.4
			#	41	28.50	
PEL	160.22	68	PKP	40	43.00	0.2
			i	41	28.90	
			i	42	30.50	
CFA	160.88	60	PKPc	40	43.10	-0.4
TCA	162.94	53	PKPc	40	45.80	0.2
FDA5	163.17	8	PKP	40	47.70	1.7
			e	40	51.00	
			e	41	41.60	

S.D. = 1.2 on 572 of 611 obs.

JAN 03, 1982 14h 09m 50.55± 0.09s
0.945 S ± 2.2km 21.877 W ± 1.8km
DEPTH = 10.0km (geophysicist)
5.8mb (64 obs.) 6.5Msz (12 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

MBO	16.00	18	P	13	32.40	-5.0X
			iS	14	38.30	
KDS	16.50	35	iP	13	41.70	-2.1
KIC	18.58	67	iP	14	09.50	-0.3
SOB3	21.18	245	eP	14	38.40	-0.3
			e	14	41.40	
			e	14	46.80	
			eS	18	21.00	
TEN	29.74	10	iPd	16	00.00	0.7
			ePP	17	10.00	
			iS	21	09.00	
RDJ	30.10	222	iPc	16	06.00	3.3X
AVE	36.69	20	iP	17	00.00	0.5
			i	18	16.00	
IFR	37.73	23	iPc	17	10.50	1.9
			i	17	27.50	
FDA5	37.93	226	P	17	12.90	2.7
			e	17	19.80	
			e	17	21.40	
			e	17	25.90	
SFS	39.97	20	iP	17	31.00	4.1X
			i	18	11.00	
			iPP	19	13.00	
			i	20	10.00	
			iS	23	32.00	
			iSS	26	35.00	
			iSSS	29	10.00	
BNG	40.74	82	iPc	17	34.70	1.0
	0.9s	138.00nm			5.7mb	
MAL	40.84	22	iPc	17	34.50	0.4
	0.8s	6.50nm			4.4mb	X
LIS	41.17	15	P	17	39.00	2.2
			ePP	19	15.00	
			eS	23	54.00	
			eSS	26	24.00	
			LR	29	00.00	
CRT	41.55	22	iPc	17	41.50	1.4
ALM	41.70	24	iPd	17	42.30	1.1
	2.0s	2.20nm			3.5mb	X
N	16s	5.60um				
E	11s	22.50um				
			i	19	26.30	
			iPP	20	27.10	
			iPPP	22	37.20	
			i	27	19.10	
			iS	30	40.10	
FDF	41.86	293	eP	17	44.70	1.9
GUV	42.01	283	iPd	17	45.20	1.1
PRL	42.22	17	P	17	44.60	-0.9
BBL	42.41	294	eP	17	48.00	0.7
COI	42.76	15	P	17	51.30	1.5
PAG	42.76	295	eP	17	50.00	-0.3
MTE	43.18	16	P+	17	55.10	1.7
CUM	43.57	286	iPd	17	56.50	-0.3
PTO	43.59	15	P+	18	07.60	11.1X
TOL	43.78	20	Pc	17	51.50	-6.7X
			iPP	19	56.00	
ALI	43.79	24	iPd	18	09.00	10.8X
CAR	46.23	285	iPc	18	18.30	0.0
	0.8s	98.50nm			5.9mb	
EBR	46.29	24	eP	18	19.00	0.9
			eS	25	11.00	
			(PS)	25	17.00	
LGR	46.61	20	iPc	18	23.00	2.3
			iPcP	19	43.00	
SJG	47.48	296	iP	18	27.50	-0.5
			e	25	26.00	
ZGN	47.57	35	iP	18	28.70	0.3
LPA	47.65	221	Pc	18	34.00	5.0X
			PP	20	33.00	
			S	25	16.00	
BAA	47.82	222	Pc	18	32.60	2.2
			S	25	27.40	
ZOBO	48.03	249	P	18	32.00	-1.0
LPB	48.07	249	Pc	18	33.50	0.4
			S	25	34.00	
			e	34	10.00	
EPF	48.12	22	iPc	18	34.00	1.4
MLS	48.34	23	iPc	18	35.60	1.3
TOV	48.87	284	iPc	18	40.00	1.1
	0.9s	100.00nm			5.9mb	
SDV	49.54	282	iPd	18	44.70	0.5
	0.7s	57.10nm			5.7mb	
LPO	49.85	21	iPc	18	46.70	0.8
	1.1s	150.00nm			5.9mb	
LFF	49.91	21	iPc	18	47.40	1.1
	1.1s	118.00nm			5.8mb	
UAV	50.00	282	eP	18	48.90	1.1
	1.0s	274.00nm			6.2mb	
TUH	50.16	134	iPd	18	46.00	-2.4
LGN	50.37	284	eP	18	52.00	1.7
CAF	50.38	22	iPc	18	50.50	0.5
TCA	50.42	229	ePc	18	49.80	-0.8
RJF	50.50	21	iPc	18	51.30	0.4
	1.0s	56.60nm			5.5mb	
CDR	50.85	26	Pc	18	54.00	0.5
LMR	50.90	27	iPc	18	54.30	0.4
	0.8s	70.40nm			5.6mb	
LRG	50.93	26	iPc	18	54.70	0.6
	1.0s	80.00nm			5.6mb	
GIB	50.95	37	P	18	57.00	2.5
			e	19	55.00	
MFF	51.06	19	iPc	18	55.40	0.4
	0.8s	81.80nm			5.7mb	
MEI	51.11	38	P	18	56.00	0.5
FRF	51.14	26	iPc	18	56.00	0.3
	1.0s	31.00nm			5.2mb	
ARE	51.23	250	eP	18	55.00	-2.2
			eS	26	20.00	
LSF	51.32	21	iPc	18	57.50	0.4
	1.0s	114.00nm			5.8mb	
TCF	51.60	21	iPc	18	59.70	0.5
	0.8s	37.20nm			5.4mb	
SSB	51.64	24	iPc	19	00.00	0.5
MZF	51.67	22	iPc	19	00.40	0.7
	1.0s	80.40nm			5.6mb	
STV	51.98	26	P	19	02.70	0.5
LPF	52.04	18	iPc	19	02.50	0.0
	1.0s	40.00nm			5.3mb	
ANT	52.17	240	Pc	19	03.50	-0.3
			iS	26	28.00	
ROB	52.27	27	P	19	04.50	0.2
BOCO	52.41	276	eP	19	05.50	-0.8
GRR	52.42	18	eP	19	05.00	-0.3
	1.0s	71.20nm			5.6mb	
BOG	52.43	277	iP	19	06.00	-0.4
AVF	52.44	22	iPc	19	06.10	0.6
	1.0s	62.00nm			5.5mb	
SMF	52.50	22	iPc	19	06.60	0.6
	1.0s	51.20nm			5.4mb	
PNI	52.51	26	P	19	05.80	-0.3
SSF	52.73	22	iPc	19	08.10	0.4
RMP	52.80	32	P+	19	09.00	0.7
			iPP	21	26.00	
			iS	26	44.00	
			iPS	26	52.00	
SSC	52.82	18	eP	19	08.20	-0.1
LBF	52.84	22	iPc	19	08.90	0.4
	1.0s	111.00nm			5.7mb	
FLN	52.86	18	iPc	19	08.40	-0.2
	1.0s	41.80nm			5.3mb	
BUL	52.89	115	P-	19	10.00	0.5
LOR	53.03	22	iPc	19	10.20	0.3
	1.0s	97.60nm			5.7mb	
KRI	53.06	110	P-	19	11.00	0.2
KSR	53.07	122	iPd	19	09.40	-1.4
	0.9s	84.00nm			5.7mb	
MNS	53.20	32	P+	19	11.00	-0.2
EMS	53.26	25	Pc	19	11.50	-0.3
CFA	53.32	230	ePc	19	11.50	-0.9
CSI	53.46	36	P	19	13.80	0.6
PRT	53.47	29	P	19	18.00	4.9X
			ipP	19	42.00	98kmX
			iPP	21	35.00	
			eS	27	28.50	
DIX	53.47	25	Pc	19	13.50	0.0
FIR	53.47	30	P	19	13.00	-0.1
			PP	21	18.00	
			S	26	46.00	
ROI	53.50	37	P	19	13.20	-0.3
AQU	53.56	32	P+	19	14.50	0.6
PRC	53.56	31	P-	19	14.00	0.2
			iPP	21	00.00	
VAL	53.60	9	ePd	19	32.00	18.1X
			S	26	49.00	
			SS	30	30.00	
			LO	31	56.00	
DUI	53.65	33	P	19	14.50	0.0
BLF	53.65	126	iPd	19	15.10	0.1
PCN	53.67	27	P	19	16.50	2.0
			iS	27	00.00	
MMK	53.68	25	Pc	19	15.00	0.0
CEN	53.71	231	eP	19	15.00	-0.3
CHN	54.00	277	eP	19	17.00	-0.7
NEC	54.02	24	P	19	16.50	-0.7
FOG	54.12	34	P	19	29.50	11.6X
HUA	54.13	256	eP	19	20.00	1.0
SLR	54.21	121	iPd	19	19.40	0.3
	0.9s	242.00nm			6.2mb	

TABLE 4-54

03d 14h

SAL	54.48	28	P+	19	19.50	-1.1			1.0s	75.00nm		5.7mb	BUD	59.96	31	Pc	19	57.80	-1.6
HAU	54.59	23	iPc	19	21.40	0.0		Z	18s	21.40um		6.3Msz				ipP	20	05.00	24kmX
	0.8s	192.00nm				6.2mb				e	19	54.70				i	21	26.00	
BBS	54.61	24	P	19	21.00	-0.6	GRG		57.89	39 P	19	43.60	-1.6			i	24	08.00	
BSF	54.62	23	iPc	19	21.50	-0.2	KMR		57.96	28 iPc	20	44.30	58.8X	TIM	60.02	34	Pc	20	00.00	0.2
	0.8s	130.00nm				6.0mb	WTS		58.03	20 iPc	19	46.20	0.3	KDZ	60.13	39	eP	20	00.00	-0.6
BAF	54.70	23	iPc	19	21.80	-0.5			1.0s	159.00nm		6.0mb	DIM	60.49	39	eP	20	02.00	-1.1
TLL	54.75	233	P	19	22.20	-1.0	THE		58.07	39 P	19	46.00	-0.3	BRN	60.78	24	iPc	20	05.80	1.0
LLS	54.77	26	P	19	21.80	-1.1	ESK		58.13	12 eP	19	50.00	3.5X	PVL	60.83	38	Pc	20	05.00	-0.3
PT03	54.86	254	eP	19	10.90	-13.0X	EKA		58.15	12 P	19	55.00	8.3X	BRL	60.85	24	eP	20	06.00	0.7
RFA	54.90	227	ePc	19	19.60	-4.4X			1.2s	70.60nm		5.6mb	ELL	60.85	46	iPc	20	06.00	0.2
MTD	54.90	110	P-	19	23.00	-1.3	WET		58.19	26 iPc	19	45.70	-1.4	KSP	60.94	27	iP	20	05.00	-1.0
ZUL	54.99	25	Pc	19	23.50	-0.9			1.4s	207.00nm		6.0mb			1.1s	65.00nm				5.7mb
ECH	55.07	23	P+	19	24.40	-0.6	VAY		58.21	38 eP	19	47.00	-0.3	DEV	61.05	34	ePc	20	07.00	0.2
			ePcP	20	35.00		SOH		58.42	39 P	19	49.00	0.1	EDC	61.10	42	eP	20	04.00	-3.3X
			ePP	21	26.00		KHC		58.49	27 iPc	19	48.50	-0.8	AAE	61.21	79	eP	20	09.50	0.7
			iS	27	05.00				1.0s	48.00nm		5.5mb	DST	61.26	43	iPc	20	07.80	-0.6
CDF	55.28	23	iPc	19	26.30	-0.2		Z	12s	14.40um		6.3MszX	JOS	61.39	31	Pc	20	08.80	-0.3
	0.8s	92.60nm				5.9mb		N	13s	12.40um						isP	20	25.00	
STJ	55.31	335	eP	19	31.00	4.4X		E	12s	8.50um						iPcP	21	06.00	
PT02	55.33	255	iPd	19	25.20	-2.1				e	19	58.60				iPP	22	44.00	
CTI	55.34	28	P+	19	26.40	-0.6				S	27	58.00		SPC	61.69	30	iP	20	11.20	-0.2
PT06	55.35	254	eP	19	26.40	-1.0	OUR		58.55	40 P	19	50.00	0.3				e(S)	28	27.00	
PSO	55.49	272	iP	19	28.50	-0.5	HOF		58.64	25 iPc	19	49.50	-0.8	CTT	61.87	41	eP	20	10.90	-1.6
STR	55.61	23	P	19	24.00	-4.8X				eS	28	04.00		NIE	61.88	30	iPc	20	12.40	-0.1
GRM	55.65	131	eP	19	29.00	-0.4	WIT		58.66	20 eP	19	48.50	-1.8		0.9s	64.00nm				5.8mb
	1.3s	539.00nm				6.4mb			1.0s	85.00nm		5.8mb				i	20	22.50	
OGA	55.66	27	iPc	19	28.70	-0.7	NAI		58.67	91 eP	20	06.80	9.5X	CMP	61.92	36	eP	20	16.00	3.2X
	1.5s	214.00nm				6.0mb			2.0s	294.00nm		6.0mb	WES	61.92	320	eP	20	11.70	-1.1
DOU	55.67	20	Pc	19	28.40	-0.8	SRS		58.73	39 P	19	51.00	0.0		1.0s	650.00nm				6.8mb X
			S	27	22.00		MOX		58.79	24 iP	19	50.70	-0.5	HNME	61.96	325	eP	20	11.30	-1.7
CIR	55.80	115	P-	19	30.00	-0.6				i	20	02.00			0.8s	28.50nm				5.5mb
LM2	55.82	256	eP	20	29.00	58.3X				e	23	32.00		ALT	62.02	44	iPc	20	13.40	-0.3
PEL	55.85	230	P+	19	30.30	-0.5				S	28	05.00		BUC	62.08	37	iPc	20	11.00	-2.8
BUH	55.87	24	eP	19	30.00	-0.7				SS	32	12.00		KRA	62.11	29	iPc	20	13.30	-0.6
WLF	55.87	22	ePc	19	39.00	8.4X				LQ	34	25.00			0.9s	84.00nm				5.9mb
			S	27	26.00					e	44	42.00				i	20	23.30	
SAN	55.96	229	P	19	32.00	0.4				e	47	24.00				ePS	22	49.00	
TRI	56.10	29	iPc	19	32.40	0.1	SOP		58.86	29 Pc	19	51.60	-0.2			eS	28	35.00	
			e(PPP)	22	44.00					ipP	19	56.00	14kmX	IST	62.19	42	ePc	20	14.00	-0.6
			i(S)	27	22.00					isP	20	06.00				ePP	24	12.00	
			e	33	12.00					iPcP	20	41.00				eS	28	42.00	
			i(SSS)	34	06.00		BEO		59.03	34 P	19	53.20	0.2	MDJ	62.23	319	eP	20	13.40	-1.5
			i	45	12.00		CON		59.15	227 P	19	53.40	-0.6	ISK	62.24	42	eP	20	24.00	9.0X
GAP	56.14	26	eP	19	31.90	-0.7	VIE		59.15	29 P	20	00.00	6.2X	UZH	62.39	31	Pc	20	14.50	-1.3
UCC	56.19	20	Pc+	19	32.50	-0.3				pP	20	17.00	64kmX				isP	20	20.00	
			e	20	48.40					i	21	12.00		BMR	62.44	33	eP	20	16.00	-0.2
			S	27	23.00					PPP	22	02.00		MLR	62.57	36	Pc	20	17.00	-0.3
STU	56.34	24	ePc	19	33.00	-1.0				S	27	58.00		COP	62.98	21	ePc	20	23.00	3.4X
	1.0s	48.00nm				5.5mb				PS	28	21.00					iPP	22	50.00	
	Z 20s	21.30um				6.2Msz				ScS	29	42.00					iPPP	24	27.00	
TIR	56.57	37	P	19	36.50	0.7				SS	31	55.00					iS	28	55.00	
MEM	56.60	21	eP	19	35.00	-0.8				SSS	34	40.00					iSSS	35	42.00	
ENN	56.70	21	iPc	19	36.80	0.2				e	55	14.00		VRI	63.24	36	eP	20	22.00	0.5
	1.1s	186.00nm				6.0mb	HLW		59.21	54 eP	19	54.00	-0.5	GPD	63.32	318	eP	20	21.60	-0.5
LJU	56.72	30	iPc	19	36.90	0.1	ZST		59.48	29 iP	19	55.50	-0.5				e	20	27.30	
FUR	56.75	26	iPc	19	36.50	-0.5				sP	20	11.00		LVV	64.01	31	Pc	20	26.60	0.1
	1.2s	304.00nm				6.2mb				i	20	28.00		WAR	64.06	28	eP	20	36.00	9.3X
			eS	27	34.00		PRU		59.55	26 Pc	19	55.50	-1.0				e	26	48.00	
TTG	56.87	36	P	19	38.30	0.4			2.0s	148.00nm		5.8mb					eS	29	00.00	
			S	27	35.50			Z	13s	20.80um		6.5MszX					e	29	12.00	
OHR	56.99	38	iP	19	38.40	-0.5		N	13s	29.50um				PNY	64.56	322	eP	20	29.60	-0.5
			i	19	50.50			E	14s	20.50um							e	20	35.80	
			i	20	06.80					i	20	06.40		BER	64.69	15	eP	20	36.00	5.3X
ATH	57.12	42	ePc	19	40.00	0.2				iS	28	03.00		REY	64.93	360	eP	20	39.90	7.8X
			iS	27	40.00		PRA		59.56	26 iPc	19	55.00	-1.6	MNT	64.93	322	eP	20	32.00	-0.5
BHG	57.14	27	iPc	19	38.70	-1.1				e	20	02.00		RSNY	65.02	321	eP	20	32.00	-1.2
	0.9s	137.00nm				6.0mb				S	28	14.00					e	20	39.00	
TNS	57.19	23	iPc	19	39.70	-0.5	SSR		59.79	35 P	19	58.10	-0.2	KIS	65.10	36	Pc	20	31.50	-2.1
SAR	57.31	34	P	19	41.20	0.1	SRO		59.82	30 eP	19	58.00	-0.4	KON	65.23	17	i(P)	20	40.90	6.6X
			S	27	16.70					S	28	10.00		INY	65.31	318	eP	20	35.00	-0.1
BNS	57.31	21	eP	19	41.10	0.2				e	52	00.00					S	29	24.00	
			iS	27	44.80		CLL		59.86	25 iPc	19	57.80	-0.8	ARO	65.47	77	eP	20	36.50	-0.1
LIT	57.47	40	P	19	41.20	-1.0				i	20	09.00		KAS	65.55	43	iPd	20	36.00	-0.7
DBN	57.56	19	eP	19	50.00	7.4X				i	20	29.00					i	20	45.50	
	Z 20s	36.00um				6.5Msz				i	21	16.00		JSC	65.64	309	eP	20	37.50	0.2
			iS	27	44.00					PP	22	18.00		BLA	66.00	312	ePd	20	44.80	5.1X
			eSS	31	47.00					e	22	36.00					eS	29	24.80	
			eSSS	33	40.00					S	28	19.00		OTT	66.17	322	eP	20	40.00	-0.5
SKO	57.89	37	iPc	19	45.00	-0.1				e	30	15.00			1.1s	109.00nm				6.0mb
	1.3s	190.00nm				6.0mb				P'P'	49	44.00		PRM	66.44	308	eP	20	41.90	-0.6
			e	19	56.50		YER		59.86	45 iP	19	57.50	-1.5				e	20	48.10	
			i	20	11.50		BRG		59.93	25 iPc	19	58.60	-0.6	AKU	66.54	2	eP	20	44.50	2.1
			iPPP	23	18.50					i	20	09.00			1.3s	231.00nm				6.2mb
			iS	27	51.00					e	22	43.00			Z 18s	26.10um				6.5Msz
GRFO	57.89	25	eP	19	44.10	-0.9				S	28	22.00					i	20	50.20	
GRF	57.89	25	iPc	19	44.50	-0.5				P'P'	49	40.00		TBY	66.55	18	P	20	42.17	-0.5

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MRG	66.55	314	iP	20	48.60	5.5X
NB2	66.83	17	P	20	44.60	0.0
	1.1s	35.40nm				5.5mb
HFS	66.87	18	P	20	44.20	-0.5
	1.0s	27.50nm				5.4mb
			e	42	00.00	
KVT	67.00	44	iP	20	45.30	-0.7
SLL	67.02	18	P	20	45.30	-0.4
APO	67.26	18	P	20	46.41	-0.8
SIM	67.32	40	eP	20	49.00	1.1
			eS	29	39.00	
UPP	67.96	20	Pc	20	50.90	-0.7
			iS	29	54.00	
MNK	68.19	29	Pc	20	56.00	2.9
			eS	30	00.00	
ORT	68.52	309	iP	20	55.30	-0.3
ANN	69.35	41	Pc	20	59.00	-1.4
			eS	29	55.00	
UTO	69.86	315	ePc	21	04.00	0.4
AN10	70.09	314	eP	21	04.60	-0.5
AAM	70.14	316	iP	21	05.50	0.2
AVY	70.42	110	iPd	21	09.70	1.9
SNA	70.45	173	e(P)	21	14.00	7.3X
SOC	70.46	43	eP	21	06.00	-1.3
			eS	30	18.00	
IN3	70.67	312	eP	21	08.30	-0.3
			i	21	14.40	
BHD	70.84	54	Pc	21	15.00	5.2X
			e	21	30.00	
			ePP	24	00.00	
			eSKP	24	41.00	
			ePPP	26	47.00	
			eSKKS	30	25.00	
			ePS	34	17.00	
NUR	70.97	22	Pc	21	09.80	-0.2
			i	21	18.00	
			e	22	16.00	
			ePP	23	48.00	
			ePPP	25	40.00	
			eS	30	27.00	
			eSS	34	28.00	
AIA	70.99	197	e(P)	21	10.00	-0.1
UME	71.68	18	Pc	21	14.20	0.0
			iS	30	46.00	
LEN	72.45	47	Pc	21	20.00	0.5
			eS	30	40.00	
BKR	72.50	46	Pc	21	19.00	-0.8
GRT	72.60	308	e(P)	21	19.00	-1.3
ELC	72.71	310	eP	21	19.60	-1.3
ERE	72.76	47	eP	21	22.00	0.7
			eS	30	38.00	
CHI	72.81	315	P	21	21.00	-0.4
PYA	72.89	43	Pc	21	22.30	0.4
			S	30	46.40	
SUF	72.93	21	Pc	21	21.70	0.0
NVL	73.08	169	Pc	21	26.00	3.6X
			iS	31	09.00	
DON	73.23	309	eP	21	23.20	-0.7
GDH	73.26	349	iPd	21	23.50	0.0
	0.8s	15.00nm				5.1mb
			iS	30	55.00	
KER	73.29	54	eP	21	25.00	0.4
OBN	73.35	31	eP	21	22.00	-2.2
			isP	21	24.00	
			iS	30	47.00	
MTA	73.41	46	P	21	25.00	0.1
TAB	73.56	50	eP	21	26.00	-0.1
FVM	73.81	310	ePd	21	26.10	-1.2
GRS	73.93	48	Pc	21	27.60	-0.6
			isP	21	33.60	
MOS	74.13	30	eP	21	16.00	-12.7X
KRV	74.23	47	eP	21	29.00	-0.7
KJF	74.40	20	P	21	30.80	0.6
			i	21	43.50	
			eS	31	04.00	
GRO	74.50	44	Pc	21	32.00	0.8
			iS	31	04.00	
KIR	74.61	15	Pc	21	31.50	0.1
			iS	31	23.00	
MAK	75.64	45	eP	21	38.00	0.2
LHC	75.88	321	iPd	21	41.40	2.4
	1.1s	175.00nm				6.1mb
SHE	75.92	48	eP	21	36.00	-3.4X
			iS	31	23.00	
SOD	76.04	17	Pc	21	40.30	0.7
			i	21	45.10	
SHI	76.94	59	eP	21	45.00	-0.6

RLO	77.00	307	iPd	21	45.00	-0.6
TEH	77.01	53	eP	21	47.00	1.2
GBO	77.07	307	ePd	21	44.90	-1.1
IIT	77.49	290	iP	21	57.70	8.8X
TUL	77.57	307	iPd	21	48.30	-0.4
	Z 22s	23.20um				6.5Msz
			i	21	54.40	
DAG	77.64	1	iPc	21	48.60	0.4
	0.8s	18.00nm				5.2mb
			iPP	24	45.00	
			iS	31	45.00	
			iSSS	40	02.00	
KEV	77.67	16	eP	21	48.00	-0.6
	1.1s	55.20nm				5.6mb
			i	21	59.70	
			ePPP	26	20.00	
			eS	31	44.00	
			eSS	36	40.00	
IIP	78.09	290	iP	21	54.00	1.7
IIM	78.34	290	iP	21	53.00	-0.6
TAC	78.36	290	iP	22	02.00	8.3X
IIC	78.45	290	iP	21	55.50	1.2
III	78.53	289	iP	21	57.00	2.5
JCT	80.08	301	iP	22	02.20	-0.4
	Z 18s	22.70um				6.6Msz
KAT	81.41	50	Pc	22	10.50	1.2
FCC	81.65	330	iPc	22	10.10	0.0
	1.5s	612.00nm				6.4mb
KBS	81.68	6	eP	22	13.00	3.0X
LUB	82.18	304	eP	22	14.00	0.4
VAN	82.67	52	eP	22	16.00	0.1
TGI	83.02	57	e(P)	22	17.00	-1.1
MHI	83.60	53	Pc	22	21.40	0.5
			e	22	30.00	
			iS	32	26.20	
FFC	85.05	325	eP	22	27.00	-0.6
	1.2s	2.00nm				4.2mb X
ALE	85.19	355	eP	22	29.00	1.1
	1.5s	110.00nm				5.9mb
GLD	85.47	310	eP	22	32.00	1.7
	Z 21s	26.80um				6.6Msz
ARU	85.51	33	Pc	22	31.30	1.5
ANMO	86.09	305	eP	22	34.00	0.5
ALO	86.09	305	eP	22	34.10	0.6
	1.5s	392.00nm				6.4mb
	Z 22s	44.40um				6.8Msz
RES	86.46	345	ePc	22	34.90	0.6
	1.3s	153.00nm				6.0mb
SVE	86.68	33	Pc	22	36.30	0.7
MAW	87.12	158	eP	22	41.00	3.4X
BDW	88.94	313	eP	22	47.00	-0.2
SPA	89.06	180	iPc	22	50.00	2.9
	0.9s	16.80nm				5.3mb
KHE	89.28	9	eP	22	50.00	2.2
SAM	89.72	51	Pc	22	51.80	1.1
			iS	33	41.00	
SES	90.19	320	ePc	22	53.60	1.0
	1.3s	111.00nm				6.0mb
LRM	91.07	316	ePc	22	58.00	1.0
DSH	91.09	52	Pc	22	59.20	2.1
KAAO	91.29	56	e(P)	23	00.10	1.9
KBL	91.29	56	iPc	22	57.70	-0.5
AMM	91.42	316	eP	23	04.50	5.9X
TAS	91.50	49	ePc	23	00.00	1.2
EDM	91.64	323	ePc	22	58.20	-1.0
	1.3s	328.00nm				6.5mb
KUL	91.86	52	eP	23	03.00	2.4
YKA	92.10	332	P	23	01.30	0.3
GAR	92.30	51	ePc	23	04.00	1.3
MBC	92.70	346	eP	23	05.00	1.4
	1.1s	119.00nm				6.2mb
GLA	92.99	303	e(P)	23	11.00	5.1X
			i	23	15.00	
KHO	93.28	53	eP	23	03.00	-4.3X
EUR	93.76	309	iP	23	17.00	7.5X
	0.6s	8.33nm				5.3mb
ANR	93.83	49	eP	23	15.00	5.5X
			eS	34	04.40	
GLR	93.87	307	e(P)	23	17.40	7.4X
NEW	94.20	318	eP	23	15.00	3.9X
	Z 20s	40.00um				6.9Msz
	N 20s	12.00um				
	E 20s	30.00um				
BMN	94.68	310	eP	23	13.30	-0.4
	1.0s	27.00nm				5.6mb
			e	23	22.20	
FRU	95.41	47	eP	23	16.00	-0.8

MNA	95.51	308	eP	23	16.90	-0.6
POO	95.73	72	eP	23	34.50	15.8X
PAS	95.74	304	eP	23	16.00	-2.5
			ePP	27	12.00	
			ePPP	29	24.00	
			eSKS	34	00.00	
			eS	35	00.00	
			ePS	35	48.00	
			eSS	41	12.00	
			eSSS	45	00.00	
NRN	96.54	49	eP	23	22.00	-0.3
FRI	96.83	307	iP	23	30.80	7.5X
TLG	97.40	47	eP	23	32.00	6.2X
PRI	97.66	306	iP	23	35.80	8.6X
NRI	97.83	20	Pd	23	39.00	11.9X
ORV	98.03	310	iPc	23	36.70	8.1X
MIN	98.03	310	iP	23	36.80	8.0X
PRZ	98.22	47	eP	23	45.00	15.3X
MHC	98.34	307	iP	23	38.40	8.1X
PGC	98.35	319	eP	23	36.50	6.6X
NDI	98.43	61	eP	23	44.70	14.0X
	Z 18s	13.80um				6.5Msz
			ePP	27	52.00	
			eSKS	35	12.00	
			eSS	41	50.00	
SEM	98.45	39	eP	23	30.00	-0.3
WDC	98.72	311	iP	23	38.60	6.9X
BKS	98.76	308	eP	23	35.00	3.0X
			e	23	50.00	
			e	28	28.00	
			e	30	24.00	
			e	32	04.00	
			eSKS	34	18.00	
			eS	35	20.00	
			e	36	36.00	
			e	37	10.00	
			iSS	41	20.00	
			ePP	17	20.00	
INK	98.76	340	eP	23	34.00	2.7X
MIR	98.82	158	eP	23	30.00	-1.6
RMT	98.89	310	eP	23	31.60	-0.8
GBA	99.27	76	P	23	48.00	13.4X
NVS	99.47	34	P	23	35.10	0.3
HYB	100.24	73	ePdiff	23	49.00	9.8X
			ePP	28	08.00	
			eSKS	34	36.00	
			eS	35	20.00	
			eSS	42	24.00	
UKR	101.17	38	ePdiff	23	55.00	12.5X
FBA	105.37	339	Pdiff	24	08.50	7.6X
IMA	106.67	341	(Pdiff	24	16.00	9.1X
PMR	107.69	336	(Pdiff	24	25.50	14.2X
	Z 18s	28.00um				6.9Msz
ILT	111.28	351	ePKP	28	31.00	5.2X
SHL	111.77	63	iPdiff	24	48.50	17.9X
IRK	112.07	32	ePdiff	24	49.00	17.9X
YAK	115.42	14	ePKP	28	41.00	7.0X
SEY	118.05	3	ePKP	28	51.00	12.0X
TUP	118.18	24	ePKP	28	47.00	7.6X
CHG	119.38	69	ePKP	28	44.00	1.2
PSI	120.81	87	ePKPd	28	54.50	8.9X
KMI	121.45	61	ePKP	28	57.00	10.1X
	N 20s	6.30um				
			PP	31	24.00	
			S	37	41.50	
PCT	122.36	73	ePKP	28	50.70	2.2
BJI	125.55	39	ePKP	29	04.00	9.9X
	Z 17s	10.30um				6.6MszX
	E 17s	6.50um				
			eSKS	38	32.00	
			eS	39	56.00	
MUN	128.59	133	ePKP	29	07.00	6.8X
HKC	132.28	60	ePKP	30	00.06	52.6X
MEK	133.05	129	ePKP	29	03.00	-5.9X
RAR	133.34	239	ePKP	29	28.00	18.6X
			PP	31	48.00	
			e	32	23.00	
			PKS	32	59.00	
			e	49	40.00	
			SS	50	10.00	
			PS	58	15.00	
			LQ	05	16.00	
			LR	16	00.00	
SSE	133.95	46	ePKP	29	24.00	13.7X
	N 16s	6.33um				
	E 16s	3.70um				
			ePP	33	14.00	

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		iPPS	46	07.00		
WEL	135.33	198	PKP	30	03.00	50.3X
			PP	31	51.00	
			SS	50	03.00	
ANP	137.24	53	PKP	30	11.00	54.1X
SHK	138.99	33	ePKP	29	26.20	6.4X
PPR	139.85	76	ePKP	29	37.50	15.7X
ADE	139.92	155	PKP	29	26.20	4.7X
BAG	139.95	65	PKP	29	27.00	4.8X
			e	32	18.00	
MAT	140.07	25	ePKP	29	10.00	-11.7X
	Z 22s		11.10um			6.6Msz
DDR	140.95	25	ePKP	29	34.80	11.5X
QCP	140.95	68	PKP	29	10.00	-13.7X
WAM	142.06	168	PKP	29	33.50	8.3X
CAN	142.93	168	PKP	29	32.10	5.3X
			i	29	38.00	
YOU	143.79	166	PKP	29	27.50	-0.8
			i	29	34.00	
STK	143.79	156	ePKP	29	26.00	-2.3
			e	29	39.00	
KUPT	143.93	109	ePKP	29	29.40	0.4
CCP	144.74	73	ePKP	29	35.70	5.4X
CNP	144.90	69	ePKP	29	39.60	9.0X
PLP	145.56	72	ePKP	29	39.20	7.5X
CGP	145.88	76	ePKPc	29	32.50	0.2
ASP	146.03	138	PKPc	29	33.70	1.3
KNA	146.59	121	ePKP	29	35.00	1.6
MNI	146.72	89	ePKP	29	35.50	1.8
AFI	146.73	243	ePKP	29	47.00	13.3X
			PP	33	40.00	
			PPP	36	33.00	
			SKKS	45	14.00	
			SS	52	16.00	
			SSS	57	12.00	
			LQ	11	00.00	
			LR	19	00.00	
DAV	146.98	78	PKP	29	43.00	8.9X
PPH	147.45	77	ePKP	29	38.50	3.7X
COO	148.10	170	ePKP	29	40.00	4.5X
WB2	148.79	133	PKP	29	37.20	0.3
			e	29	40.00	
			i	29	47.00	
			iPP	31	15.00	
MTN	149.92	118	ePKP	29	40.00	1.4
BRS	151.36	170	PKPc	29	59.80	19.2X
			iPKP	30	00.80	
			i	30	32.90	
			e	33	38.90	
SVA	152.45	226	ePKP	30	03.00	20.7X
VUN	152.52	226	ePKP	30	01.80	19.4X
NOU	155.50	199	PKPd	29	49.00	2.6X
CTA	156.08	152	PKP	29	45.30	-2.0
KOU	157.79	195	PKPc	30	09.60	20.2X
PVC	158.90	208	PKPc	30	29.80	39.1X
GUMO	161.83	46	e(PKP)	30	10.00	16.2X
GUA	161.90	46	e(PKP)	30	14.00	20.1X
TZZ	162.03	110	e(PKP)	30	12.00	17.8X
PMG	165.00	134	ePKP	30	02.00	5.1X
LMG	166.05	135	e(PKP)	30	15.00	17.0X
LAT	166.58	124	ePKP	30	10.00	11.8X
ESA	167.13	146	PKP	30	15.50	16.9X
RAB	172.16	131	ePKP	30	08.00	6.6X

S.D. = 1.0 on 300 of 414 obs.

& JAN 09, 1982 12h 53m 51.80s
46.984 N 66.656 W
DEPTH = 10.0km (geophysicist)
5.8mb (57 obs.) 5.4Msz (2 obs.)
NEW BRUNSWICK (451)
<SPEC>. Slight damage (VI) in parts of New Brunswick and at Bridgewater, Caribou, Easton, Haynesville, Monticello, Presque Isle, Oakfield and Stockholm, Maine. Felt in the Maritime Provinces, parts of Quebec and throughout much of New England.

UNB	1.03	179	Pg	54	11.50	0.2
EBN	1.21	298	Pg	54	14.30	-0.1
HNME	1.23	229	P*	54	14.60	-0.1
LMN	1.71	131	Pn	54	21.00	-0.8
GSO	1.95	351	Pnc	54	24.50	-0.8
PO1	2.13	193	Pn	54	26.40	-1.5
LPO	2.32	280	Pnc	54	30.00	-0.5
EMM	2.32	195	Pn	54	29.00	-1.6
MIM	2.40	224	Pn	54	30.40	-1.4
BPM	2.79	213	Pn	54	35.90	-1.3
MKM	3.13	223	Pn	54	40.60	-1.4
MWO	3.82	339	Pnc	54	49.30	-2.6
GNT	3.98	263	Pnc	54	52.40	-1.8
DVT	4.34	244	Pn	54	57.40	-2.0
WNH	4.57	229	Pn	54	59.90	-2.6
ONH	5.05	225	Pn	55	07.80	-1.5
MNT	5.06	255	Pnd	55	06.70	-2.7
HNH	5.15	232	Pn	55	07.80	-2.9
GLO	5.22	215	Pn	55	08.50	-3.2
PNY	5.27	248	Pn	55	09.90	-2.6
MDV	5.47	239	Pn	55	11.60	-3.7
PNH	5.50	227	Pn	55	13.60	-2.1
BLVT	5.55	231	Pn	55	13.50	-2.9
WFM	5.56	220	Pn	55	13.50	-3.1
WNY	5.67	245	Pn	55	14.70	-3.5
WES	5.67	218	Pn	55	14.90	-3.2
IVT	5.69	235	Pn	55	14.80	-3.6
DUX	5.73	212	Pn	55	15.80	-3.1
BGR	5.80	251	Pn	55	16.90	-3.0
RSNY	6.02	249	iPnd	55	19.70	-3.3
QUA	6.09	224	Pn	55	21.20	-2.7
GAC	6.24	261	Pn	55	22.50	-3.6
APH	6.35	243	Pn	55	24.10	-3.6
OTT	6.49	259	Pn	55	26.00	-3.6
FHO	6.81	261	Pn	55	31.00	-3.1
HDM	6.92	220	Pn	55	31.50	-4.2
ECT	7.06	226	Pn	55	32.00	-5.7
BCT	7.31	224	Pn	55	34.00	-7.1
SCH	7.84	359	Pn	55	42.60	-6.0
GPD	8.20	226	ePd	55	49.50	-4.1
INY	8.34	241	P	55	53.50	-2.1
JAQ	8.95	323	P	55	57.50	-6.4
STJ	9.49	81	P	56	06.30	-5.0
EFO	9.77	251	P	56	09.20	-6.0
NA2	12.04	227	P	56	43.50	-2.7
GHV	12.48	227	P	56	50.00	-2.1
CVL	12.51	228	P	56	50.80	-1.8
BV4	12.96	233	P	56	56.50	-2.1
AAM	12.98	255	eP	56	52.40	-6.4
BLA	14.11	231	P	57	12.00	-1.9
NAV	14.24	232	iPc	57	13.10	-2.4
AN10	14.42	250	eP	57	13.30	-4.5
PUV	14.46	232	P	57	17.00	-1.5
LHC	15.28	284	P	57	22.00	-7.1
			Sn	00	04.00	
IN3	15.93	248	eP	57	31.30	-6.1
CGTN	16.41	237	P	57	41.90	-1.8
JSC	16.81	226	eP	57	48.40	-0.3
FRB	16.83	357	eP	57	39.40	-9.4
ORT	17.21	236	eP	57	52.00	-1.7
PRM	17.52	228	eP	57	57.50	-0.1
ELC	19.28	248	eP	58	16.60	-2.7
FVM	19.64	251	eP	58	20.70	-2.8
DON	19.80	249	eP	58	28.00	2.9
PWLA	20.05	241	P	58	27.40	-0.4
FCC	20.16	316	P	58	24.00	-4.6
POW	21.22	248	eP	58	38.20	-1.6
OLY	21.81	247	P	58	44.50	-1.3
LGAR	21.85	244	P	58	48.10	1.9
GDH	23.27	12	iPd	58	59.00	-0.9
	1.1s	152.00nm				5.5mb
			iS	03	12.00	
FFC	23.40	302	P	58	59.00	-2.3
RLO	23.69	253	eP	59	03.30	-1.0
TUL	24.34	254	iPd-	59	10.10	-0.5
	1.0s	351.00nm				5.9mb
	Z 18s	15.30um				5.5Msz
			eS	03	35.50	
PCO	24.68	256	eP	59	13.00	-0.9
	0.9s	225.00nm				5.8mb
MRO	25.33	255	eP	59	18.40	-1.7
	1.0s	332.00nm				6.0mb
ACO	26.13	259	e(P)	59	26.00	-1.6
	0.8s	214.00nm				5.9mb
RSSD	26.17	278	eP	59	27.20	-0.9
RRO	26.30	256	e(P)	59	30.50	1.3
	1.0s	126.00nm				5.6mb
QZO	27.25	256	eP	59	35.40	-2.5
			i	59	38.20	
			e	59	41.70	
GOL	28.85	270	eP	59	50.00	-2.6
	0.7s	22.00nm				5.1mb
JCT	30.37	249	iP	00	04.20	-1.8
BDW	30.41	278	eP	00	03.70	-2.8
	0.8s	27.00nm				5.2mb
IMW	30.91	281	eP	00	09.00	-2.0
LRM	31.26	285	iPc	00	12.30	-1.6
BUT	31.27	285	eP	00	12.80	-1.1
AMM	31.50	286	ePc	00	14.00	-2.0
AKU	31.67	36	iP	00	14.70	-2.2
	1.0s	72.00nm				5.5mb
ALQ	32.04	262	ePc	00	19.50	-1.3
	0.9s	15.80nm				4.9mb
			eS	05	37.00	
RXF	32.10	292	iPd	00	19.00	-2.1
LDM	32.34	291	iPd	00	21.00	-2.1
YKM	32.48	292	eP	00	23.30	-1.1
LHD	32.54	291	iP	00	23.30	-1.7
NEW	33.54	291	P	00	30.00	-3.6
DUG	33.71	276	iPc	00	33.70	-1.6
RMU	33.97	269	eP	00	36.10	-1.4
PNT	34.81	294	P	00	42.50	-2.0
DAG	35.41	17	iPc	00	47.10	-2.1
	0.8s	51.00nm				5.4mb
			iPcP	03	17.00	
ALE	35.67	1	P	00	49.50	-1.9
EUR	36.19	276	iP	00	54.60	-2.0
MBC	36.20	341	P	00	54.30	-1.6
VAL	36.21	61	iPd	00	54.90	-1.3
BMN	36.60	279	ePc	00	58.80	-1.1
	1.0s	79.38nm				5.5mb
			i	01	01.70	
TOV	37.16	185	iPd	01	05.70	1.0
	1.0s	114.00nm				5.6mb
GLR	37.36	273	eP	01	05.80	-0.5
			i	01	09.30	
			ePcP	03	25.80	
DCN	37.59	58	iPc	01	05.40	-2.4
	0.7s	220.00nm				6.0mb
LPS	37.63	217	eP	01	09.00	0.4
	1.2s	180.00nm				5.7mb
DMU	37.66	57	iPc	01	05.80	-2.6
	0.7s	170.00nm				5.9mb
YMT1	37.89	273	eP	01	08.70	-2.0
IIC	37.98	236	eP	01	11.60	-0.2
DLE	38.03	58	iPc	01	08.90	-2.6
	0.7s	250.00nm				6.1mb
IIT	38.05	234	eP	01	12.30	0.0
SDV	38.12	186	iPd	01	13.00	0.2
	0.9s	111.00nm				5.6mb
DDK	38.12	57	iPc	01	08.30	-4.0
	0.8s	200.00nm				5.9mb
IIP	38.12	235	eP	01	17.30	4.3
MNV	38.19	276	iP	01	12.70	-0.6
MNA	38.19	276	eP	01	11.50	-1.8
DKM	38.20	58	iPc	01	10.10	-2.8
	0.8s	270.00nm				6.0mb
VWMM	38.34	285	eP	01	13.70	-0.8
EAB	38.54	53	ePc	01	13.20	-2.6
	0.8s	220.00nm				5.9mb
VHO	38.66	230	iP	01	17.00	-0.4
ELO	38.82	52	iPc	01	15.60	-2.5
	0.8s	284.00nm				6.0mb
GLA	38.82	267	eP	01	18.50	0.0
WCN	38.85	278	eP	01	17.80	-1.0
EBH	38.98	52	iPc	01	16.80	-2.7
	0.8s	464.00nm				6.2mb
EAU	39.11	53	iPc	01	17.80	-2.7
	0.8s	176.00nm				5.8mb
EDI	39.23	53	iPc	01	19.70	-1.9
	0.7s	69.00nm				5.4mb
EBL	39.35	53	eP	01	20.60	-2.0
	0.9s	112.00nm				5.5mb
ESK	39.38	54	eP	01	20.50	-2.3
	1.0s	160.00nm				5.6mb
EKA	39.40	54	Pd	01	21.30	-1.7
	0.8s	79.90nm				5.4mb
SDW	39.47	270	eP	01	22.70	-1.3
			ePcP	03	31.40	
MIN	39.60	281	iP	01	23.20	-1.8
ORV	39.91	280	P	01	25.00	-2.4
			PcP	03	31.00	
LCR	39.94	207	eP	01	28.90	0.9
FRI	39.99	275	iP	01	25.70	-2.4
			PcP	03	35.00	
JAS	39.99	277	iP	01	25.90	-2.2
WDC	40.11	282	iP	01	25.50	-3.6
			PcP	03	33.00	
PAS	40.48	271	eP	01	33.00	0.8
			ePP	03	10.00	
			eS	07	46.00	
			e	14	35.00	

09d 13h

STS	40.53	74	eP	01	31.00	-1.4	IFR	47.68	83	iPc	02	27.50	-2.9	PRA	51.27	55	iP	02	56.00	-1.5
ARN	41.04	277	eP	01	36.30	-0.5				i	02	32.00		NUR	51.27	39	iP	02	54.90	-2.5
			ePcP	03	37.20		SSB	47.78	64	eP	02	28.50	-2.4		0.7s		57.40nm			5.6mb
PRI	41.09	275	eP	01	38.00	0.7	TNS	47.80	57	iPc	02	28.70	-2.3		Z 28s		1.40um			4.8MszX
MHC	41.12	277	eP	01	35.00	-2.5	GWF	47.89	59	iPc	02	29.60	-2.1				i	02	59.10	
BKS	41.25	278	eP	01	39.00	0.6	BSF	47.93	60	iPc	02	29.80	-2.3				iPcP	04	11.10	
			e	07	50.00		CDF	47.95	60	iPc	02	30.10	-2.1				iPP	04	57.00	
			LQ	15	58.00			0.6s	133.00nm			6.2mb					eS	10	15.00	
			LR	18	42.00		UME	47.96	37	P	02	29.00	-2.9				eSS	12	44.00	
SAO	41.29	276	eP	01	37.00	-1.8	ECH	47.97	60	P+	02	29.60	-2.7	PRU	51.37	55	eP	02	56.30	-2.0
PTO	41.30	76	iPd	01	36.90	-1.8				eS	09	32.00			2.0s		156.00nm			5.6mb
LIS	42.12	80	P	01	44.00	-1.5				eSS	13	00.00			Z 15s		1.80um			5.2MszX
			ePP	03	31.00		BAF	48.05	60	iP	02	30.40	-2.6		N 16s		0.30um			
KBS	42.16	16	iPd	01	45.30	-0.1	KEV	48.08	28	P	02	31.00	-1.8		E 16s		1.10um			
	1.0s		68.00nm			5.3mb				ePP	04	24.00					e	04	12.30	
MTE	42.36	77	P	01	45.00	-2.6				eS	09	28.00					eS	10	13.00	
BOG	42.68	191	iP	01	51.50	0.8	ALI	48.09	75	iPd	02	33.00	-0.3	BVT	51.39	63	P	02	55.90	-2.6
			ePS	08	20.00		BUH	48.39	59	eP	02	33.20	-2.4	CTI	51.71	60	P	02	58.00	-3.1
BOCO	42.72	191	eP	01	51.70	0.6	NEC	48.42	61	P	02	33.00	-2.8	KSP	51.91	53	iPc	02	59.50	-2.9
GRR	43.08	63	iPc	01	51.20	-2.0	UPP	48.42	42	P	02	33.00	-2.6		1.0s		93.00nm			5.7mb
LPF	43.11	63	eP	01	51.30	-2.2				iS	09	42.00		KMR	52.12	57	iPc	03	02.60	-1.4
TEN	43.14	97	iPd	01	53.10	-0.8	BBS	48.53	61	P	02	33.80	-2.9	MBO	52.48	111	P	03	05.50	-1.5
			ePP	02	53.40		EMS	48.86	62	P	02	36.00	-3.4	PRT	52.52	63	P	03	08.00	1.0
			eS	06	50.40		STU	48.91	58	ePc+	02	37.50	-2.0				ipP	03	37.00	123kmX
FLN	43.16	62	iPc	01	52.10	-1.8		1.0s	160.00nm			6.0mb		FIR	52.67	63	P	03	05.00	-3.2
SSC	43.46	62	iPc	01	54.50	-1.8		Z 20s		2.84um		5.3Msz		TRI	53.14	60	eP	03	09.70	-1.9
	1.0s		1620.00nm			6.8mb	SOD	48.94	31	P	02	37.40	-2.0	SET	53.19	74	P	03	10.50	-1.7
MFF	44.27	55	iPc	02	00.70	-2.2				i	03	36.00		VIE	53.29	56	Pc	03	10.00	-2.7
KON	44.72	45	iP	02	04.30	-2.1	SLE	48.97	60	P	02	37.00	-3.1				e	11	05.00	
TOL	44.94	75	Pd	02	07.00	-1.5	ZUL	49.05	60	P	02	37.50	-3.2				e	28	32.00	
NB2	45.03	42	P	02	07.60	-1.4	KHE	49.08	10	ePc	02	40.00	-0.4	LJU	53.41	59	iP	03	11.00	-2.7
	1.5s		31.80nm			5.0mb				esP	02	44.00		SOP	53.70	56	P	03	13.00	-2.7
			pP	03	49.20	559kmX	DIX	49.15	62	P	02	39.50	-2.2				e	03	15.00	
DBN	45.14	56	eP	02	09.00	-0.8	CDR	49.34	66	P	02	40.50	-2.4				sP	03	27.00	
UCC	45.20	58	Pd-	02	09.00	-1.3	TTA	49.34	323	P	02	40.40	-2.3				e	04	08.00	
			e	02	12.00		MOX	49.41	55	iPc	02	41.00	-2.3	WAR	53.71	50	eP	03	16.00	0.3
COL	45.23	324	eP	02	09.00	-1.5		1.5s	173.00nm			5.8mb					ePS	11	16.00	
	0.8s		52.20nm			5.5mb				i	02	42.50		PRG	53.74	63	P+	03	14.50	-1.6
FBA	45.23	324	P	02	09.10	-1.4				i	02	45.50		KRA	54.31	52	eP	03	17.00	-3.1
LSF	45.46	65	iPc	02	10.10	-2.4				eS	10	00.00			1.4s		180.00nm			5.9mb
LFF	45.57	67	iPc	02	11.00	-2.4				eSS	13	25.00					ePPS	11	13.00	
DOU	45.63	59	Pd+	02	11.40	-2.4	BRN	49.46	53	iPd	02	43.50	-0.1	MNS	54.31	64	P	03	16.50	-3.7
			i	02	15.50		MMK	49.50	62	P	02	42.50	-1.9	SRO	54.63	55	iPc	03	19.80	-2.7
WIT	45.69	54	eP	02	14.00	-0.2	GRFO	49.63	56	e(P)	02	44.00	-1.1	RMP	54.65	64	P+	03	20.00	-2.8
	1.0s		88.00nm			5.7mb	GRF	49.64	56	iPc	02	43.20	-1.9	ILT	54.73	335	Pc	03	21.00	-2.0
TCF	45.87	64	iPc	02	13.40	-2.3		1.3s	221.00nm			6.0mb					eS	11	00.00	
	1.0s		625.00nm			6.5mb		Z 28s		1.00um		4.7MszX		AQU	54.77	63	P	03	21.00	-2.8
RJF	45.89	66	iPc	02	13.30	-2.6	PNI	49.67	64	P	02	42.90	-2.5	NIE	54.86	53	eP	03	22.00	-2.3
LPO	45.97	67	eP	02	14.20	-2.4	LLS	49.71	61	P	02	43.50	-2.5				i	03	26.50	
WTS	46.11	55	eP	02	15.50	-2.0	HOF	49.71	55	iPc	02	43.00	-2.7	SPC	54.95	53	eP	03	22.60	-2.5
	1.0s		232.00nm			6.1mb	LRG	49.82	66	iPc	02	44.40	-2.2	BUD	55.21	55	Pc	03	24.00	-2.8
TBY	46.11	43	P	02	05.40	-12.0	CLL	49.87	54	iP	02	44.20	-2.6				e	03	26.00	
ENN	46.12	57	iPc	02	15.20	-2.4				pP	02	48.00	13kmX				pP	03	29.00	16kmX
	1.0s		276.00nm			6.2mb				e	05	47.00					PcP	04	27.00	
MZF	46.13	64	iPc	02	15.10	-2.7	FRF	49.95	65	iPc	02	45.00	-2.6	JOS	55.49	54	Pd	03	25.00	-3.8
SLL	46.20	43	P	02	06.23	-11.9	LMR	49.98	66	iPc	02	45.20	-2.6				pP	03	30.00	16kmX
EPF	46.23	69	iPc	02	17.00	-1.7	KDC	50.07	316	P	02	46.70	-1.5				PcP	04	28.00	
	0.6s		28.60nm			5.5mb	ROB	50.33	64	P	02	47.00	-3.5				PP	05	27.00	
AVE	46.25	85	iP	02	16.50	-2.4	FUR	50.41	58	iPc	02	48.80	-2.3	KCHT	55.62	70	P+	03	27.50	-2.5
			i	03	27.00			1.5s	310.00nm			6.0mb		DUI	55.81	64	P	03	29.00	-2.2
SSF	46.31	63	iPc	02	16.20	-3.0	BRG	50.60	54	iPc	02	49.80	-2.6	ZGN	56.16	71	P-	03	30.80	-3.1
AVF	46.34	63	iPc	02	16.80	-2.6				i	02	54.00		UZH	56.38	53	eP	03	33.00	-2.2
CAF	46.41	66	iPc	02	17.50	-2.6				S	10	04.00		LVV	56.64	51	Pc	03	34.80	-2.3
LOR	46.43	62	iPc	02	17.30	-2.9				SS	13	45.00		KDS	56.89	108	iP	03	36.00	-3.2
	1.0s		437.00nm			6.4mb	GAP	50.63	59	eP	02	51.30	-1.5	BEO	57.55	57	P	03	35.50	-8.1
HFS	46.49	43	P	02	08.30	-12.2	KJF	50.76	34	iP	02	51.00	-2.5	GIB	57.70	67	P	03	42.00	-2.8
	0.7s		16.00nm					1.2s	116.00nm			5.7mb		MMN	57.79	64	P	03	41.00	-4.3
			e	20	00.00			Z 17s		2.70um		5.3MszX		CSI	58.04	64	P	03	45.50	-1.6
PSO	46.55	195	eP	02	21.50	-0.3				i	03	53.50		SSR	58.26	57	eP	03	46.00	-2.6
KIR	46.56	31	P	02	19.70	-1.2				ePP	04	48.00		ROI	58.34	64	P	03	45.50	-3.7
PYM	46.61	[illegible]	P	02	19.90	-1.8				eS	10	08.00		GZR	58.54	56	iPc	03	50.00	-0.6
LBF	46.63	63	iPc	02	19.00	-2.8				eSS	12	40.00		MEI	58.89	67	P	03	49.00	-4.0
CRT	46.65	78	iP	02	21.40	-0.7	SUF	50.84	36	P	02	51.60	-2.5	HUA	59.26	190	P-	03	56.00	-0.2
SMF	46.70	63	iPc	02	19.60	-2.7	WET	50.85	56	iPc	02	51.20	-3.2				iP	04	14.00	
MLS	46.74	69	ePc	02	20.00	-2.7		1.2s	164.00nm			5.8mb					eP	04	47.00	
PMR	46.92	320	P	02	22.70	-1.1	GEN	50.91	63	P	02	54.50	-0.3				eP	05	04.00	
IMA	47.16	326	P	02	24.70	-1.1	OGA	50.92	60	eP	02	53.40	-1.8	NNA	59.41	192	iPc	03	54.90	-1.9
EBR	47.44	72	eP	02	26.00	-2.1		1.5s	167.00nm			5.7mb			1.2s		109.00nm			5.9mb
			e	09	32.00		PCN	51.03	62	P-	02	56.50	0.7				i	03	56.00	
			e	12	58.00		APA	51.15	29	Pc	02	55.00	-1.3	OBN	59.55	40	Pc	03	54.20	-3.1
HAU	47.59	60	iPc	02	27.00	-2.3	KHC	51.25	56	iPc	02	55.50	-2.0	MOS	59.63	39	Pc	03	55.00	-2.9
	1.0s		275.00nm			6.3mb		1.0s	54.50nm			5.4mb		SKO	59.83	60	iPc	03	56.10	-3.4
COP	47.62	49	iPd	02	28.30	-1.0		Z 14s		0.90um		4.9MszX			1.6s		210.00nm			6.0mb
	0.9s		44.00nm			5.5mb		N 14s		0.80um							i	03	57.80	
			i	02	32.00			E 14s		0.80um							e	11	07.50	
			iS	09	32.00					e	03	12.30					eS	12	03.50	
			iSS	13	07.00		SAL	51.26	61	P	02	56.00	-1.5				iSS	16	07.00	

TABLE 4-58

09d 13h

CMP	59.88	55	Pd	03	58.00	-1.9	DSM	85.98	33	Pc	06	33.30	-0.2				e	47	52.00		
OHR	59.97	61	iP	03	58.40	-2.2	SHI	86.10	50	eP	06	33.00	-1.3	KRP	26.65	163	iP	38	28.80	-1.7	
MLR	60.25	54	P	04	02.00	-0.5	WMQ	86.78	18	Pc	06	36.50	-0.8				i	38	33.00		
PT02	60.29	191	eP	04	01.10	-1.7				S	17	07.00					ScP	45	35.00		
SOB2	60.78	151	eP	04	04.60	-1.5	KUL	86.93	33	ePd	06	38.00	-0.1				ScS	49	29.00		
			e	04	05.10		MDJ	87.67	348	P	06	41.00	-0.4	YOU	26.88	214	P	38	32.20	-0.5	
KIS	60.89	51	Pc	04	03.00	-3.6				eS	17	22.00		JAY	26.93	290	eP	38	34.50	1.1	
			isP	04	07.50		KSH	87.71	28	P	06	42.50	0.6	WTZ	27.15	161	eP	38	38.00	2.9x	
VAY	60.90	60	eP	04	03.70	-3.1				eS	17	19.00		CAN	27.36	211	P	38	40.20	3.1x	
TIK	61.17	354	ePc	04	06.00	-2.2	KHO	87.95	32	P	06	43.40	0.2				e	42	02.00		
			esP	04	07.50		CN2	88.97	351	P	06	45.50	-2.2	GNZ	28.09	160	eP	38	45.00	1.4	
			eS	12	30.00		KBL	89.61	35	e(P)	06	51.00	-0.2				S	43	27.00		
PT03	61.25	190	eP	04	07.50	-1.8	BTO	92.75	3	P	07	05.60	0.2	WAM	28.10	210	P	38	42.40	-1.4	
PVL	61.27	57	iPd	04	07.00	-2.3	GTA	93.14	10	Pc	07	06.10	-1.2				e	42	03.00		
DIM	62.20	57	eP	04	12.00	-3.6	BJI	93.32	358	eP	07	06.00	-1.9	COB	29.02	169	iP	38	51.50	-0.5	
KDZ	62.32	58	Pd	04	14.00	-2.4		1.5s	52.00nm			5.7mb					i	38	54.00		
NRI	62.45	10	ePc	04	15.00	-1.8	MAT	93.91	340	P-	07	09.60	-1.1				S	43	54.00		
			eS	12	29.00		TIY	95.68	1	P	07	18.20	-0.7				ScP	45	40.00		
ZOBO	62.97	182	P	04	19.30	-2.1	LZH	96.87	8	P	07	24.00	-0.5	MNG	29.16	165	iP	38	47.40	-5.9x	
LPB	63.23	182	Pc	04	21.00	-2.0	TIA	97.11	357	P	07	25.00	-0.3				i	38	56.00		
			S	12	52.00		NDI	97.93	32	P	07	29.00	-0.1				S	43	41.00		
			e	22	34.00		XAN	99.25	4	P	07	33.80	-1.3				ScP	45	41.00		
ARE	63.30	185	eP	04	20.00	-3.3	GBA	111.64	38	PkPc	12	26.20	-2.1				ScS	49	41.00		
DMK	63.59	56	eP	04	21.60	-3.2		0.7s	2.60nm								e	52	47.00		
ATH	63.70	62	eP	04	23.00	-2.5	CHG	113.24	15	ePKP	13	20.10	48.8	STK	29.51	225	eP	38	55.00	-1.6	
CTT	64.41	57	eP	04	26.50	-3.7	PSI	128.93	19	ePKP	13	00.00	-1.5				e	39	01.00		
EDC	64.61	57	iP	04	29.50	-1.9	NOU	130.97	281	PKPc	13	04.00	-1.2				e	45	51.00		
IST	64.80	56	e(P)	04	30.00	-2.6	KOU	131.21	285	PKPc	13	03.80	-1.8				e	48	13.00		
SIM	65.02	50	eP	04	33.00	-1.0	PPI	132.30	18	ePKP	13	05.50	-2.4	WEL	29.62	167	iPc	38	56.00	-1.4	
DST	65.54	58	iP	04	35.10	-2.4	MNG	135.74	255	iPKP	13	14.70	0.9				S	43	36.00		
SEY	66.14	342	eP	04	38.00	-2.9	SPA	136.79	180	iPKPc	13	15.00	-0.1				ScP	45	42.00		
			eS	13	24.70			1.0s	25.00nm								ScS	49	38.00		
KIC	66.39	107	iP	04	40.90	-2.2	CTA	142.10	304	PKP	13	19.60	-6.4	SNZO	29.63	167	e(P)	38	57.50	0.0	
			e	07	05.20		MTN	142.83	330	ePKP	13	21.00	-6.3	TOO	30.90	213	eP	39	07.00	-1.8	
MGN	66.68	55	iP	04	44.50	-0.3	SBA	143.01	196	iPKP	13	22.80	-3.1				e	39	12.00		
ALT	66.76	57	iP	04	43.00	-2.4	BRS	143.49	288	PKPd	13	27.10	-1.1	WB2	31.18	252	P	39	08.00	-3.5x	
KAS	67.25	53	iPc	04	47.50	-0.9	COO	146.17	285	ePKP	13	33.00	0.3				eS	43	20.00		
ARU	67.29	29	Pc	04	46.00	-2.3	KNA	146.32	332	ePKP	13	32.00	-1.2	WRA	31.19	252	P	39	12.00	0.4	
			isP	04	50.00		WB2	148.04	320	PKP	13	33.40	-2.5		0.8s	5.30nm			4.5mb X		
			eS	13	43.00					i	13	36.00		RHP	31.62	174	iP	39	10.20	-4.9x	
SVE	67.63	28	eP	04	48.00	-2.5	WRA	148.05	320	PKPc	13	33.50	-2.4				i	39	19.00		
BCK	68.12	58	iP	04	52.90	-1.0		0.9s	19.70nm								PcP	42	12.00		
ELL	68.20	59	iP	04	53.90	-0.6	YOU	150.79	283	PKP	13	39.30	-0.4				ScP	45	51.00		
KVT	68.70	52	iP	04	56.40	-1.0				i	13	45.00					i	45	57.00		
MGD	68.99	341	ePc	04	56.00	-2.9	CAN	150.98	281	PKP	13	39.30	-0.7				ScS	49	51.00		
PYA	70.23	46	P	05	05.00	-1.7				i	13	44.00		MSZ	32.03	177	P	39	15.00	-3.6x	
ANT	70.44	184	P	05	07.00	-1.0	ASP	151.50	318	ePKP	13	39.00	-2.1				i	39	22.00		
YAK	70.56	352	Pd	05	06.20	-2.1	WAM	151.54	279	PKP	13	45.50	4.7				ScP	45	59.00		
GRO	72.02	45	Pd	05	17.00	-0.5				i	13	49.00		BFD	32.25	217	eP	39	24.00	3.3x	
BKR	72.14	48	Pd	05	17.50	-1.0	STK	153.66	295	ePKP	13	43.00	-0.9	ASPA	32.33	246	eP	39	19.00	-2.6	
PET	73.15	333	eP	05	22.00	-1.9		393 obs. associated						ADE	33.26	223	P	39	29.40	-0.1	
FDA5	74.08	166	P	05	29.70	0.0								GUA	33.30	320	eP	39	33.20	3.3x	
			epP	05	33.50	12kmX		AUG 05, 1982 20h 32m 48.98± 1.79s							1.0s	304.00nm			6.2mb		
KRV	74.37	47	P	05	30.00	-1.2		12.573 S ± 2.7km 165.968 E ± 2.4km						GUMO	33.36	320	eP	39	32.50	2.0	
GRS	75.23	47	Pc	05	34.80	-1.7		DEPTH = 5.0 ± 10.5 km							1.6s	987.00nm			6.5mb		
			isP	05	40.60			6.0mb (30 obs.) 7.1Msz (30 obs.)						RAR	33.83	109	P	39	32.00	-2.5	
NVS	75.37	17	Pc	05	33.80	-2.9		SANTA CRUZ ISLANDS					(184)				S	45	00.00		
			eS	15	18.10									MTN	33.97	266	Pd	39	39.00	3.2x	
BOD	75.53	360	Pc	05	36.20	-1.4	PVC	5.61	157	Pnc	34	18.90	3.7x				e	42	14.00		
TAB	76.32	48	eP	05	43.00	0.4				iS	35	28.50					e	48	54.00		
			e	08	33.00		HNR	6.68	297	ePn	34	32.00	1.7	TAU	34.27	205	Pc	39	41.00	2.9x	
ELT	77.51	16	Pc	05	46.80	-1.9	KOU	8.11	191	Pc	34	48.80	-1.4				i	42	20.80		
			eS	15	41.00		NOU	9.69	177	Pd	35	12.60	0.4				eS	45	01.00		
TCA	77.98	178	ePd	05	51.00	-0.6				iS	37	16.50		KNA	36.18	260	eP	39	54.00	-0.7	
SEM	78.87	21	Pc	05	54.60	-1.7	NDF	12.22	116	eP	35	46.00	-0.7	AAI	38.37	280	ePd	40	21.30	8.1x	
			eS	15	55.00		SVA	13.24	116	ePd	36	03.30	2.9x	WBN	39.37	244	eP	40	23.00	1.5	
UKR	79.38	18	Pc	05	56.90	-2.1				eS	45	23.00		KUPT	41.57	269	eP	40	49.50	9.9x	
			eS	16	00.90		ESA	15.13	279	eP	36	31.50	6.3x	MCQ	42.19	186	eP	40	48.00	3.9x	
PEL	79.84	183	P-	06	01.80	0.2	RAB	15.98	300	ePd	36	43.00	6.7x	AFR	42.95	102	iP	40	52.10	1.2	
IRK	80.82	6	eP	06	02.00	-4.7	LMG	17.88	280	eP	37	03.00	2.6		1.2s	380.00nm			6.0mb		
MOY	81.14	8	eP	06	09.00	0.6	KVG	18.01	302	eP	37	02.00	0.1	MNI	43.13	286	eP	40	57.50	5.0x	
			isP	06	10.70		PMG	18.73	278	eP	37	11.00	0.2		0.7s	138.00nm			5.8mb		
ZAK	82.63	6	Pc	06	16.50	0.4				e(S)	40	49.00		PAE	43.14	102	iP	40	53.70	1.3	
YSS	82.92	340	Pd	06	18.00	0.3	BRS	19.24	218	Pd	37	16.10	-0.8		1.2s	230.00nm			5.8mb		
BNG	83.51	90	iPc	06	19.50	-1.8	LAT	19.60	286	P	37	21.50	0.3	PPT	43.14	102	iP	40	53.90	1.4	
	1.2s	52.80nm			5.6mb		CTA	20.33	246	P	37	28.50	-0.5		1.2s	280.00nm			5.9mb		
CON	83.63	185	P-	06	22.60	1.4				iS	41	10.00		PPN	43.28	102	iP	40	54.80	1.2	
TAS	83.75	32	ePc	06	21.00	-1.1	MOM	21.16	298	eP	37	39.00	1.5	TVO	43.45	103	iP	40	55.50	0.4	
MHI	84.07	41	Pd	06	23.90	-0.1	MDG	21.22	288	eP	37	43.00	4.9X	DAV	44.65	294	Pc	41	08.00	3.3x	
FRU	84.21	28	Pc	06	24.20	-0.3	AFI	21.70	96	P	37	43.00	-0.1	PMO	44.81	99	iP	41	06.30	0.3	
SAM	84.33	34	eP	06	25.00	-0.1				S	41	32.00			1.2s	450.00nm			6.3mb		
TLG	84.67	26	Pc	06	26.00	-0.8	COO	22.15	214	eP	37	48.00	0.5	KLG	44.82	239	eP	41	05.00	-1.0	
ANR	85.33	30	ePc	06	29.00	-1.1				e	47	06.00		MBL	44.84	253	eP	41	11.00	4.8x	
TMU	85.50	185	eP	06	30.00	-0.6	RAO	22.36	140	eP	37	51.00	1.5	VAH	45.06	99	iP	41	08.00	0.0	
PRZ	85.68	25	Pd	06	32.00	0.0	CRZ	22.60	165	iP	37	56.00	4.2x		1.2s	385.00nm			6.2mb		
NRN	85.92	27	Pc	06	33.60	0.2	RIV	25.10	210	eP	38	17.00	0.9	TPT	45.08	99	iP	41	08.40	0.2	
			eS	17	10.00		ISQ	26.54	249	eP	38	30.00	0.2		1.2s	320.00nm			6.1mb		

05d 20h

RUV	45.30	99	iP	41	09.90	0.0	KUSJ	58.72	342	P	42	50.00	0.0				eS	53	52.00
	1.2s	510.00nm			6.4mb		HAK	58.89	338	P	42	57.00	5.8x	CHTO	73.04	294	e(P)	44	21.00 -1.4
CGP	46.03	295	ePd	41	17.80	2.1	MRRJ	59.31	339	P	42	55.00	0.8	HHC	73.13	320	P	44	21.90 -0.8
			eS	46	32.30		QZH	59.37	309	P	42	55.10	0.2				S	53	50.00
MKS	46.46	275	i(P)	41	24.00	4.9x				iS	51	05.00					SkS	54	30.00
MEK	46.55	245	eP	41	21.00	1.3	KUR	59.82	345	Pc	43	00.00	2.4	MGD	73.45	352	ePc	44	25.00 1.1
PLP	47.03	298	eP	41	24.00	0.4				iS	51	11.00					eS	53	50.00
CCP	47.57	297	ePd	41	32.50	4.7x	ASAJ	60.29	341	P	43	02.00	1.2	CD2	73.70	308	P	44	25.30 -0.8
KLB	48.09	239	eP	41	32.00	0.2	SSE	61.10	316	iPc	43	10.00	3.4x				S	53	58.00
NWAO	48.81	237	eP	41	35.00	-2.3		Z 19s	37.30um			6.6Msz					SkS	54	26.00
HON	48.85	47	P	41	40.00	2.3		E 19s	32.20um								SS	58	42.00
KIP	48.91	47	eP	41	36.00	-2.1				PP	43	30.00		BTO	73.98	319	P	44	27.90 0.4
			eS	48	56.00					PP	45	29.00					S	53	59.00
LGP	49.06	300	ePc	41	40.50	1.1				PPP	46	57.00		LZH	75.94	312	Pc	44	38.50 -0.5
	1.2s	233.00nm			6.1mb					iS	51	30.00					S	54	19.00
MUN	49.46	239	eP	41	42.00	-0.3	HKC	61.47	304	iP	43	14.00	4.7x				ScS	54	53.00
	Z 20s	203.00um			7.1Msz					iS	51	23.00		SEY	73.97	334	Pc	44	40.10 1.7
	N 20s	91.00um					MCO	61.88	304	iP	43	17.00	4.9x	SPA	77.51	180	ePd-	44	43.00 -4.2x
	E 20s	120.00um					GZH	62.52	304	P	43	16.00	-0.3		1.0s	355.00nm			6.4mb
PAP	49.77	297	eP	41	48.50	3.6x				iS	51	40.00		KDC	77.92	21	eP	44	52.50 3.2x
PGP	51.60	299	eP	42	01.50	2.7	YSS	62.87	342	eP	43	15.00	-3.2x	KOI	78.83	301	ePc	44	52.00 -3.1x
PPR	51.91	293	eP	42	03.30	2.1				isP	43	17.80					iPcP	44	59.80
	1.3s	160.00nm			5.8mb					iS	51	50.00					ePP	47	50.00
MAN	52.04	300	eP	42	07.50	5.3x	NJ2	63.26	316	P	43	21.00	0.0				e	54	09.00
TRT	52.65	270	ePc	42	11.20	4.3x				iS	51	56.00		IMP	79.42	298	P	44	50.20 -8.1x
KKM	52.79	288	ePd	42	12.70	4.7x	SKR	63.56	353	Pc	43	22.00	-0.7	YAK	79.59	344	eP	44	57.00 -1.4
	1.5s	386.00nm			6.1mb					iS	52	00.00					iS	54	59.90
			i	51	26.00		VLA	63.59	333	P	43	22.40	-0.6	GTA	80.27	314	P	45	01.50 -1.2
BAG	53.32	302	Pc	42	10.00	-1.9				iS	52	04.00					S	55	05.00
			e	51	26.00		SBA	65.28	180	iP	43	29.90	-3.6x	TTA	80.82	17	eP	45	02.70 -2.3
TAT	53.38	333	P	42	17.00	5.2x				i	43	38.00		ILT	81.02	6	Pd	45	05.00 -0.8
KYS	53.44	334	eP	42	13.00	0.7				PcP	44	22.00					iS	55	08.00
TK02	53.49	331	P	42	16.00	3.7x				i	51	28.00		SHL	81.43	299	P+	45	08.00 -1.2
KTJ	53.69	333	P	42	11.00	-3.1x				S	52	23.00					S	55	22.00
SZP	53.99	303	iPd	42	20.00	3.4x				PS	52	56.00		BOD	81.94	335	eP	45	08.00 -2.9
OYM	54.02	333	eP	42	11.50	-5.1x				ScS	53	35.00		PME	81.97	20	eP	45	09.50 -1.4
SRY	54.17	333	eP	42	12.00	-5.6x				SS	56	38.00			1.0s	40.00nm			5.5mb
KAKJ	54.28	334	P	42	16.00	-2.4				LQ	59	42.00			Z 20s	160.00um			7.4Msz
TSK	54.32	334	eP	42	16.40	-2.3				LR	05	00.00		ZAK	83.07	325	Pc	45	14.70 -2.1
OWA	54.35	330	P	42	20.00	1.1	WHN	65.57	312	P	43	36.50	0.4				iS	55	40.00
DDR	54.53	333	eP	42	17.40	-3.0x				iS	52	22.00		TOA	83.27	21	eP	45	14.00 -3.8x
CHJJ	54.66	333	P	42	19.00	-2.2	PET	65.62	355	Pc	43	37.00	1.0	LSA	83.35	302	P	45	19.50 0.1
IIDJ	54.67	332	P	42	19.00	-2.4				eS	52	20.00					S	55	39.50
MRT	54.73	327	P	42	26.00	4.2x	KLM	65.75	279	ePd	43	42.00	4.4x				SS	01	06.50
WKYJ	54.77	329	P	42	23.00	0.9	MDJ	65.79	332	P	43	36.00	-1.3	MAW	83.40	202	eP	45	15.00 -3.3x
KAGJ	55.02	323	P	42	27.00	3.0x	ADK	65.93	12	eP	43	38.00	0.0				e	45	23.00
SHR	55.04	335	P	42	25.00	1.0	PPI	66.08	275	eP	43	42.30	2.6	IRK	83.44	327	eP	45	15.00 -3.8x
GIF	55.14	331	P	42	29.00	4.3x				eS	52	55.20					eS	55	14.00
SUM	55.20	329	P	42	27.00	1.8	IPM	66.73	281	ePd	43	45.00	1.1	FHC	83.56	46	iP	45	22.00 2.3
MYZ	55.24	324	P	42	30.00	4.5x		1.4s	80.20nm			5.7mb		BRK	83.72	49	P	45	21.00 0.5
TKSJ	55.37	328	P	42	30.00	3.6x				e	53	00.80		BKS	83.74	49	ePc	45	21.50 0.9
MAT	55.42	333	P+	42	23.50	-3.3x	TIA	66.89	319	P	43	44.00	-0.5		0.8s	115.00nm			6.2mb
			S	50	09.00		CN2	67.16	329	Pc	43	43.40	-2.6		Z 20s	254.00um			7.6Msz
NOB	55.59	325	P	42	33.00	5.0x				eS	52	40.00			N 20s	187.00um			
TSRJ	55.63	330	P	42	25.00	-3.3x	BGV	67.62	299	P	43	54.00	4.6x		E 20s	75.00um			
MTMJ	55.64	333	P	42	25.70	-2.7	SNG	67.84	283	iP	43	54.00	3.1x				ePP	48	29.60
NIIJ	55.66	334	P	42	25.00	-3.4x		1.3s	231.00nm			6.2mb					eS	55	57.60
ISN	55.73	337	P	42	29.00	0.0				iS	52	56.00					ePPS	56	58.40
YAM	55.96	336	P	42	31.00	0.4	PSI	68.27	278	ePc	43	43.50	-10.1x				e	59	30.80
YAMJ	56.02	335	P	42	32.00	1.0	NKI	68.74	16	eP	43	55.10	-0.6				eSS	06	48.80
KAN	56.13	332	P	42	36.00	4.2x	TSI	68.82	279	ePc	44	01.10	4.1x				eSSS	04	25.20
OFUJ	56.17	337	P	42	32.00	-0.1	GYA	69.46	305	P	44	01.00	0.1	IMA	83.91	15	eP	45	17.50 -3.6x
TTN	56.21	308	P	43	36.00	63.4x				S	53	10.00			1.0s	12.50nm			5.1mb
MIZ	56.42	337	iPc	42	37.20	3.3x				SS	57	48.00		SAO	83.93	50	iP	45	24.40 2.8x
			S	50	27.00		BJI	69.80	321	iP	44	06.00	3.5x	MHC	83.99	50	iPc	45	21.60 -0.4
HIR	56.51	327	P	42	39.00	4.4x		Z 23s	96.50um			7.0MszX		RWT	84.16	47	eP	45	21.00 -1.6
SHK	56.51	327	ePc	42	32.10	-2.6		N 22s	65.90um					PNL	84.24	25	eP	45	22.50 -0.2
			eS	50	29.00			E 21s	38.10um					PRI	84.31	51	iP	45	24.70 1.0
HWA	56.54	310	P	42	40.30	5.3x				PPP	48	19.00		SIT	84.50	28	eP	45	25.00 1.1
			iS	50	37.10					S	53	13.00		WDC	84.50	47	iPc	45	24.00 -0.4
MIY	56.55	338	P	42	35.00	0.2	TIY	70.83	318	P	44	08.20	-0.7	COL	84.70	18	eP	45	18.00 -6.9x
YONJ	56.61	328	P	42	34.00	-1.4				iS	53	26.00					eS	56	00.00
SKH	56.63	336	P	42	39.00	3.6x	XAN	71.31	313	P	44	11.00	-0.9	FBA	84.70	18	P	45	23.00 -1.9
DRV	56.76	192	P	42	33.00	-3.1x				eS	53	28.00		DRV	84.87	48	P	45	25.00 -1.3
			eS	50	25.00		MIR	71.78	204	Pc	44	16.00	1.9	MOY	84.96	326	ePc	45	24.00 -2.4
			eSS	54	18.00					iS	53	37.00					isP	45	26.70
			e	59	00.00		KMI	72.10	302	Pc	44	16.00	-1.1	JAS	85.09	50	iPc	45	26.60 -0.8
HJH	56.97	336	P	42	35.00	-2.8		E 18s	27.20um					FRI	85.32	51	iP	45	27.70 -0.8
MYS	57.02	328	P	42	42.00	3.8x				S	53	22.00		COR	85.47	43	iPc	45	28.00 -1.1
SHNJ	57.06	326	P	42	42.00	3.5x				SS	53	44.00		PAS	85.59	54	iPc	45	28.00 -2.0
ANP	57.32	311	iPc	42	45.00	4.3x	BSI	72.46	280	ePd	44	23.00	4.0x		0.8s	5600.00nm			7.8mb X
			iS	50	42.00			1.3s	481.00nm			6.4mb			Z 20s	44.00um			6.9Msz
LEM	57.71	270	iPc	42	50.00	6.3x	BDT	72.46	293	eP	44	18.30	-0.6		N 20s	14.00um			
			iS	50	50.00			1.0s	152.00nm			6.1mb			E 20s	20.00um			
AOMJ	57.94	337	P	42	45.00	0.4				e	53	31.00					e	46	32.00
HOOJ	58.52	340	P	42	53.00	4.3x	CHG	73.04	294	iPc	44	20.70	-1.7				ePP	48	32.00
NEM	58.67	343	P	42	49.00	-0.7		1.0s	15.00nm			5.1mb					ePPP	50	44.00

TABLE 4-60

05d 20h

			eS	56	00.00		POO	95.89	288	P+	46	24.50	5.9x				SKP	55	21.50		
			ePPS	57	05.00		YKA	96.22	27	P	46	22.00	2.8x	RSNY	119.67	46	ePKP	51	41.80	-0.1	
			eSS	01	00.00		MOT	96.32	60	P	46	21.00	0.3	MNT	120.09	45	ePKP	51	45.00	2.4x	
			eSSS	05	24.00		PRZ	96.60	312	eP	46	25.00	3.5x	BOG	120.23	92	ePKP	51	53.00	8.7x	
WKTM	85.89	52	eP	45	31.70	0.1				eS	57	50.00		BOG	120.23	92	ePdiff	47	09.00	-58.9x	
BOK	86.23	295	P	45	36.00	2.7x	AJM	96.86	235	P+	46	27.00	4.2x	KIR	120.39	346	PKPc	51	40.60	-1.9	
			S	56	09.00					PP	50	28.80					i	51	43.20		
BFW	86.26	41	eP	45	36.60	3.5x	SEM	96.87	320	ePc	46	18.00	-4.3x	GRO	120.47	302	ePKP	51	46.00	2.6x	
SDW	86.59	54	e(P)	45	35.50	0.4	GOL	96.89	51	e(P)	46	15.60	-7.5x		Z 22s		29.00um			6.9Msz	
VPIM	86.76	44	eP	45	34.20	-1.6		0.9s		9.00nm			5.4mb		N 22s		27.00um				
VHEM	86.82	42	eP	45	37.70	1.7	BOM	96.92	288	P	46	29.00	5.8x		E 20s		45.00um				
VIS	86.94	289	P+	45	43.00	6.1x	SNA	96.92	184	e(P)	46	25.00	2.7x				iPP	53	14.00		
MNA	86.95	50	eP	45	36.00	-0.8	NRI	97.45	340	Pc	46	25.00	0.4				iSP	02	56.00		
TIK	87.61	349	ePc	45	40.00	1.0	TLG	97.48	313	Pc	46	29.00	3.7x	GRO	120.47	313	ePdiff	48	12.00	4.1x	
			eS	56	15.00		KSH	97.86	309	P	46	25.00	-2.2	KRV	120.51	310	PKP	51	45.00	1.4	
YMT1	87.69	52	eP	45	41.20	0.9				PP	50	30.00		KRV	120.51	310	ePdiff	48	07.00	-1.1	
GLA	87.93	56	eP	45	38.80	-2.7				SKS	57	12.00		GRS	120.70	309	iPKP	51	44.40	0.2	
BMN	88.26	48	eP	45	38.80	-4.2x				eS	57	43.00					iPP	53	19.00		
	0.8s		15.00nm			5.4mb	NRN	98.17	311	eP	46	32.00	3.1x	GRS	120.70	309	Pdiffc	48	11.40	2.2x	
EUR	88.89	49	iP	45	46.80	0.6				eS	58	06.00		CNG	120.74	229	ePKP	51	49.00	4.6x	
	1.2s		11.00nm			5.0mb	MBC	98.52	13	eP	46	30.70	1.4	KER	120.76	303	ePKP	51	47.50	3.0x	
VAR	89.05	296	P+	45	51.20	4.3x		1.5s		50.00nm			6.1mb	KJF	120.88	340	ePKP	51	42.00	-1.5	
WMO	90.32	315	Pc	45	50.00	-2.6	IIM	98.58	72	Pd	46	36.00	5.0x		1.0s		78.00nm				
			PP	49	30.50		LUB	98.62	58	eP	46	30.00	-0.7		Z 21s		61.60um			7.2Msz	
			eSKS	56	26.00		KRD	99.17	312	P+	46	17.00	-16.0x				i	51	46.00		
			S	56	41.00		FRU	99.41	312	ePc	46	37.00	2.9x				ePP	52	56.00		
KOD	90.75	280	eP	46	02.00	6.6x				iS	58	07.00					eSKP	54	08.00		
			PcP	46	07.30		ANR	100.80	309	ePdiff	46	44.00	3.6x				ePS	03	04.00		
			PP	49	35.00					eS	58	17.00					e	04	44.00		
			PPP	51	33.00		KHO	101.02	306	Pdiffc	46	41.90	0.2	KJF	120.88	340	ePdiff	48	08.00	-1.2	
			SKS	56	31.00					S	58	20.40		TAB	120.93	307	e(Pdif	48	40.00	29.8x	
			SKKS	56	40.00		GAR	102.15	308	ePdiff	46	49.00	2.4x				e	51	55.00		
			eS	56	50.30					eS	58	27.00		BCT	121.11	49	ePKP	51	48.10	3.4x	
			PS	57	57.00		KUL	102.47	306	ePdiff	46	48.00	0.0	DVT	121.21	45	ePKP	51	45.60	0.8	
			PPS	58	28.00		DSH	103.30	307	ePdiff	46	54.00	2.3x	MOS	121.39	329	ePdiff	48	16.00	4.4x	
			SS	02	48.00		SAM	104.78	308	Pdiffc	47	01.30	3.1x	MOS	121.39	329	ePKP	51	16.00	-28.7x	
			SSS	06	21.00		SVE	108.82	326	Pdiffc	47	18.00	2.3x				iPP	53	19.00		
			LQ	10	02.00		ARU	109.99	326	ePdiff	47	24.00	3.1x				ePPP	55	54.00		
			LR	15	44.00		ARU	109.99	326	ePKP	51	26.00	3.0x				ePS	03	16.00		
NEW	90.76	41	eP	45	54.80	0.4				iPP	51	54.00		MTA	121.45	311	ePKP	51	42.60	-2.7x	
	Z 20s		30.00um			6.7Msz				ePS	01	25.50					ePS	03	11.00		
	N 20s		22.00um							eSPP	02	26.00		MTA	121.45	311	ePdiff	48	16.00	3.8x	
	E 20s		23.00um				MHI	110.56	304	Pdiffc	47	29.40	5.3x	ERE	121.97	310	iPKP	51	50.00	3.5x	
INK	91.27	19	eP	45	58.00	1.7				e	50	38.20					iPP	53	28.00		
MYB	91.28	287	ePc	45	57.00	-0.4				i	52	07.20					iSP	03	15.00		
			e	46	01.50		ASH	111.47	306	ePdiff	47	33.00	5.0x	ERE	121.97	310	ePdiff	48	22.00	7.2x	
			e	46	11.00		VAN	111.67	306	ePdiff	47	37.00	8.1x	PYA	122.17	314	PKP	51	48.60	1.9	
			ePP	49	38.00		KAT	113.07	307	ePdiff	47	39.00	4.0x				iPP	53	26.80		
			e	55	12.50		UTD	113.51	50	iPdiff	47	38.00	1.1				iSP	03	14.00		
			eSKS	56	31.50		CLE	115.05	50	Pdiffc	47	27.70	-16.1x				iSPP	04	40.00		
			eS	57	00.00					eSKS	58	23.00		PYA	122.17	314	ePdiff	48	18.00	2.5x	
			ePS	58	16.00		DAC	115.76	1	ePKP	51	34.00	0.5	OBN	122.17	328	ePKP	51	48.00	1.8	
DUG	91.43	49	eP	45	59.10	1.3				iPP	52	37.00					iPP	53	26.00		
MSU	91.47	51	eP	45	55.60	-2.6				iS	00	33.00					iSP	03	12.00		
GBA	91.50	284	Pd	45	59.70	1.3				iPS	02	13.00					iSPP	04	40.00		
	1.0s		39.90nm			5.7mb	BLA	116.26	55	ePdiff	47	49.20	-0.2				iSS	10	00.00		
MSO	92.40	43	ePc	46	04.00	1.9				eS	02	20.00		OBN	122.17	328	ePdiff	48	18.00	2.9x	
	Z 18s		18.50um			6.5Msz	ARE	116.30	116	iPKP	52	40.00	63.4x	LEN	122.34	310	PKPc	51	50.00	2.7x	
BUT	93.11	44	ePc	46	05.00	-0.5	APA	116.98	342	ePdiff	47	52.00	0.3	BKR	122.38	312	iPKP	51	46.00	-1.3	
LRM	93.13	44	eP	46	08.10	2.4	APA	116.98	342	iPKP	51	39.90	3.9x				iPP	53	21.00		
IMW	93.70	46	ePd	46	09.20	0.8		Z 22s		88.00um			7.3Msz	BKR	122.38	312	ePdiff	48	20.00	3.4x	
HRY	93.77	43	eP	46	09.60	1.1		N 23s		40.00um				SUF	122.39	339	PKP	51	44.50	-1.9	
AIA	93.83	161	e(P)	46	10.00	1.7		E 20s		45.00um				PUL	122.67	335	ePKP	51	48.00	1.0	
SEH	93.85	293	P	46	11.00	1.9				iPP	52	45.00			Z 22s		43.00um			7.1Msz	
UKR	94.20	321	Pc	46	07.80	-2.3				iSP	02	26.00			N 22s		32.00um				
BDW	94.42	47	eP	46	11.80	0.1	LPA	117.06	140	PKPd	51	32.00	-5.2x		E 22s		10.00um				
	1.1s		25.88nm			5.5mb				PP	52	44.00					ePP	53	26.00		
	Z 20s		156.25um			7.5Msz				PKS	55	08.00					ePPP	55	58.00		
DDI	94.47	300	P	46	14.00	2.1				PPP	55	17.00		PUL	122.67	335	ePdiff	48	20.00	2.8x	
			SKS	56	53.00					SKS	56	25.00		EVA	122.87	227	ePKP	51	51.00	2.3x	
NDI	94.85	298	iPc	46	15.40	1.8	KEV	117.33	345	ePdiff	47	48.00	-5.2x	BHD	123.13	302	PKPc	51	53.00	4.2x	
	Z 18s		18.20um			6.6Msz	KEV	117.33	345	ePKP	51	38.00	1.4	BLF	123.21	222	ePKP	51	50.50	1.2	
			iPP	50	14.40			1.0s		52.00nm							i	52	48.00		
			iSKS	56	50.40			Z 20s		61.20um			7.2Msz	MIM	123.27	44	ePKP	51	49.00	0.3	
			iS	57	25.40					i	51	48.50		CBM	123.36	42	ePKP	51	50.60	1.8	
			iPS	58	42.40					ePP	52	40.00		UME	123.49	343	PKP	51	44.90	-3.6x	
			iSS	03	50.40					ePS	02	36.00					i	51	50.50		
NVL	95.00	188	eP	46	15.00	1.4	INY	118.66	48	ePKP	51	30.00	-10.0x	MSL	123.60	305	ePKP	51	45.50	-4.4x	
	1.6s		190.00nm			6.3mb	OTT	118.67	45	ePKP	51	42.00	2.1x	PRY	123.74	225	ePKP	51	47.00	-3.4x	
	Z 21s		96.70um			7.2Msz	TJA	118.86	124	e(PKP)	51	40.00	-1.6				i	51	54.00		
			eS	57	22.00		SOD	119.08	343	ePKP	51	39.00	-1.0	SLR	123.00	227	iPKPd	51	53.20	2.4x	
ALO	95.13	55	eP	46	13.00	-2.1				i	51	43.80			1.0s		64.00nm				
	1.0s		16.50nm			5.4mb				ePKKP	01	57.00			Z 19s		169.00um			7.7Msz	
	Z 19s		139.00um			7.4Msz	LPB	119.24	117	Pdiffc	48	04.00	0.5	CLK	123.97	241	ePKP	51	53.00	2.0	
ANMO	95.13	55	eP	46	17.00	1.9	LPB	119.24	117	PKP	51	45.00	2.6x	CIR	124.12	234	ePKP	51	53.00	1.8	
GOA	95.32	285	P	46	19.10	3.1x				SKS	58	43.00		SUR	124.24	216	iPKPd	51	54.70	3.4x	
			SKS	56	49.50		ZOBO	119.32	117	PKPc	51	40.60	-2.1		0.8s		50.70nm				

	Z 17s	162.00um				7.8MszX
NUR	124.41	338	iPKP	51	49.00	-1.4
	0.9s	98.00nm				
	Z 22s	54.10um				7.2Msz
			i	51	54.90	
			ePP	53	32.00	
			eSKP	54	44.00	
			ePS	03	32.00	
			ePPS	05	04.00	
			eSS	10	36.00	
NUR	124.41	338	ePdiff	48	28.00	3.1X
PD0	124.41	44	ePKP	51	50.20	-0.8
ARO	124.46	275	iPKPc	51	55.40	3.4X
TUH	124.48	214	ePKP	51	52.00	0.5
SOC	124.62	315	ePKP	51	53.50	2.1X
			iPS	03	40.00	
			iSS	10	36.00	
SOC	124.62	315	ePdiff	48	29.00	2.6X
KSR	124.80	226	e(PKP)	51	55.00	2.5X
TET	124.95	240	ePKP	51	59.00	6.2X
			e	53	53.00	
			e	55	23.00	
ANN	125.86	317	ePKP	51	54.00	0.2
ANN	125.86	317	ePdiff	48	37.00	5.2X
AKU	126.88	2	ePKP	51	51.40	-3.7X
	1.0s	52.00nm				
	Z 20s	22.70um				6.8Msz
			i	52	00.20	
			i	01	09.20	
			e	05	09.10	
BUL	126.92	233	ePKP	51	57.00	0.2
			ePP	53	27.00	
			iPKKP	01	10.00	
UPP	127.31	341	Pdiff	48	39.00	1.2
UPP	127.31	341	iPKP	51	55.00	-1.0
			iPP	53	56.00	
			iPKS	55	12.00	
NAI	127.71	258	ePKP	52	04.00	5.5X
	1.0s	30.00nm				
			eS	20	48.00	
APO	127.90	343	PkP	51	58.55	1.3
KRI	127.91	237	ePKP	51	5[illegible].00	-0.7
			iSKP	55	33.00	
			iPKKP	01	11.00	
SIM	127.94	318	ePKP	51	53.00	-4.8X
			ePP	54	04.00	
SIM	127.94	318	ePdiff	48	43.00	1.9
KVT	127.97	313	ePKP	51	58.00	0.0
AAE	128.08	272	ePKP	52	03.00	3.7X
SLL	128.13	343	PKP	51	59.25	1.6
REY	128.21	4	ePKP	51	57.20	-0.4
			i	52	06.10	
NB2	128.22	345	PKP	51	51.60	-6.3X
	1.0s	40.10nm				
HFS	128.30	343	PKP	51	59.10	1.1
	1.0s	48.00nm				
			e	51	00.00	
TBY	128.59	343	PKP	51	59.65	1.2
SJG	129.57	77	ePKP	52	01.50	-0.2
	1.0s	45.00nm				
	Z 20s	23.40um				6.9Msz
			e	55	18.00	
KON	129.83	345	iPKP	52	02.50	1.6
KON	129.83	345	ePdiff	48	52.00	2.9X
BER	130.18	348	ePdiff	49	01.00	10.4X
KIS	130.32	322	iPKP	52	04.00	1.8
	Z 20s	30.00um				7.0Msz
	N 20s	24.00um				
	E 20s	18.00um				
			iPP	54	20.00	
KIS	130.32	322	ePdiff	48	56.00	4.4X
IAS	131.01	323	ePKP	52	04.00	0.5
			e	55	29.00	
WAR	131.45	332	ePKP	52	02.00	-2.2
			e	52	38.00	
PPE	131.47	322	ePKP	52	08.00	3.6X
			ePKS	55	38.00	
LVV	131.51	328	iPKP	52	06.00	1.6
			iPP	54	28.00	
			iPPP	57	14.00	
			iSKS	59	18.00	
			iSS	12	02.00	
LVV	131.51	328	ePdiff	49	00.00	3.2X
CFR	131.65	321	ePKP	52	12.00	7.2X
			ePP	54	36.50	
			ePKS	55	39.50	
			eSKS	55	40.00	

			eSKKS	58	51.00	
BAC	131.72	323	ePKP	52	13.00	8.1X
TLB	132.01	320	ePKP	52	08.00	2.5X
			ePP	54	30.00	
			ePKS	55	34.00	
			eSKKS	55	34.50	
VAO	132.14	137	PKP	52	07.10	0.6
			e	52	09.80	
VRI	132.18	322	ePKP	52	07.00	1.2
			ePP	54	32.00	
COP	132.32	340	iPKP	52	11.00	5.3X
	Z 22s	44.00um				7.1Msz
			iPP	54	27.00	
			iPKS	55	40.00	
COP	132.32	340	ePdiff	49	02.00	1.8
GPA	132.33	314	ePKP	52	07.00	0.7
ISR	132.66	321	ePKP	52	10.00	3.2X
			ePP	54	32.00	
			ePKS	55	37.00	
			eSKKS	55	37.50	
MUD	132.69	343	ePKP	52	09.00	2.6X
MLR	132.84	322	ePKP	52	06.00	-1.3
			ePP	54	34.00	
			ePKS	55	36.00	
			eSKKS	01	21.00	
			eSKS	04	50.00	
ISK	132.90	315	ePKP	52	09.10	1.8
BMR	133.06	326	ePKP	52	11.00	3.6X
			ePP	54	40.00	
			ePKS	55	40.00	
			eSKSP	04	51.00	
UZH	133.13	327	iPKP	52	10.00	2.5X
	Z 20s	26.00um				6.9Msz
	E 20s	29.00um				
			iPPS	06	38.00	
			SS	12	25.00	
			SSS	17	20.00	
UZH	133.13	327	ePdiff	49	10.00	5.9X
BUC	133.30	321	ePKP	52	08.00	0.1
			ePP	54	30.00	
			ePKS	55	40.00	
KRA	133.41	330	ePKP	52	02.00	-6.0X
	Z 20s	67.00um				7.4Msz
	N 22s	45.00um				
	E 22s	35.00um				
			ePP	54	40.00	
			e	55	38.00	
KRA	133.41	330	ePdiff	49	11.00	5.7X
MDB	133.42	324	ePKP	52	13.00	4.8X
CMP	133.51	322	ePKP	52	04.00	-4.4X
WIN	133.63	221	ePKP	52	15.10	5.6X
	1.0s	30.00nm				
			e	55	35.50	
NIE	133.64	329	ePKP	51	58.00	-10.5X
			i	52	14.00	
			i	01	23.00	
SPC	133.83	329	ePKP	52	04.10	-5.0X
			iPP	54	37.20	
			e	55	37.00	
EDC	134.02	315	ePKP	52	08.00	-1.5
FDF	134.22	82	ePKP	52	03.50	-7.1X
DRA	134.29	322	ePKP	52	06.00	-3.8X
DEV	134.42	324	ePKP	52	09.00	-1.0
			ePP	54	30.00	
PVL	134.52	320	ePKP	52	14.00	3.7X
KSP	134.55	333	ePKP	52	02.00	-8.2X
			i	52	15.50	
			i	55	43.50	
			i	01	23.50	
			i	04	55.60	
RDJ	134.61	141	ePKP	52	08.00	-3.1X
RDJ	134.61	141	PKP	49	14.00	*****X
BRN	134.64	337	ePKP	52	11.00	0.8
HLW	134.66	300	ePKPc	52	14.00	3.0X
			eS	54	52.00	
DIM	134.79	318	ePKP	52	11.00	0.1
KDZ	135.14	318	ePKP	52	01.00	-10.6X
IZM	135.25	313	ePKP	52	04.80	-7.1X
EDU	135.30	351	ePKP	52	11.70	0.3
			i	55	44.80	
EZN	135.31	315	ePKP	52	00.00	-11.9X
TIM	135.46	325	ePKP	52	13.00	1.0
ELO	135.48	352	ePKP	52	12.30	0.5
			e	55	45.70	
BRG	135.53	335	ePKP	52	04.50	-7.5X
	Z 22s	37.00um				7.1Msz
	N 20s	22.00um				

	E 20s	35.00um				
			i	52	13.80	
BUD	135.56	328	ePKP	52	12.00	-0.1
CLL	135.58	336	ePKP	52	08.00	-4.1X
			e	52	15.00	
			PP	54	50.00	
			SKP	55	46.00	
			PKS	55	58.00	
			e	59	16.00	
EBH	135.67	352	ePKP	52	12.80	0.7
			e	55	46.00	
SSR	135.67	323	ePKP	52	05.00	-7.5X
			e	52	18.00	
SRO	135.70	329	ePKP	52	11.60	-0.8
	N 18s	27.90um				
	E 18s	26.00um				
			iPP	54	56.00	
EAB	135.84	352	ePKP	52	13.20	0.8
			e	55	46.60	
ESY	135.85	351	ePKP	52	13.00	0.6
			i	55	46.70	
PRA	135.93	334	iPKP	52	05.00	-7.8X
			e	52	13.00	
			PP	55	06.00	
PRU	135.94	334	ePKP	52	07.00	-5.8X
	Z 19s	28.30um				7.0Msz
	N 18s	23.80um				
	E 18s	16.70um				
			e	52	15.50	
			PP	54	48.00	
			e	55	54.00	
VTS	136.04	320	ePKP	52	08.00	-5.2X
ZST	136.05	330	ePKP	52	14.10	1.0
			iPP	54	55.70	
EAU	136.05	351	ePKP	52	13.30	0.5
EBL	136.06	351	ePKP	52	13.80	1.0
			e	55	47.40	
BAO	136.24	129	e(PKP)	52	03.00	-11.5X
VIE	136.37	331	ePKPc	52	06.00	-7.7X
			i	52	16.00	
			ePP	54	49.00	
			eSP	04	56.00	
VKA	136.38	331	ePKP	52	12.00	-1.7
			e	54	57.00	
BEO	136.44	324	PKP	52	08.00	-5.9X
			iPcP	52	22.60	
			iPP	54	50.00	
			i	55	51.00	
			i	01	17.20	
			iS	01	47.00	
ESK	136.52	351	ePKP	52	16.00	2.3X
WIT	136.57	342	ePKP	52	16.50	2.6X
			e	52	48.50	
			ePP	54	58.50	
			e	55	55.50	
MOX	136.65	336	ePKP	52	05.00	-9.2X
	Z 20s	41.50um				7.2Msz
	N 19s	30.40um				
			e	52	16.50	
			ePP	54	59.00	
			e(PKS)	55	50.00	
			ePKKP	01	28.00	
			(PKKS)	04	10.00	
DUR	136.78	349	PKP	53	10.50	56.3X
KHC	137.00	333	ePKP	52	07.00	-7.9X
	1.1s	62.50nm				
			e	52	18.00	
			e	54	47.90	
			e	55	50.90	
THE	137.20	318	PKPd	52	04.00	-11.5X
			ePP	55	02.00	
			eS	01	16.00	
WTS	137.24	341	ePKP	52	13.00	-2.2
			i	52	18.20	
			ePP	55	02.00	
WET	137.29	334	ePKP	52	10.40	-5.1X
SKO	137.48	320	iPKPd	52	06.00	-10.0X
			i	52	15.00	
			i	55	07.00	
GRF	137.56	336	ePKP	52	10.00	-5.9X
	Z 20s	48.20um				7.2Msz
			e	52	19.00	
			ePP	55	01.00	
MOA	137.64	332	ePKP	52	09.00	-7.2X
			e	52	19.00	
			PP	55	04.00	
			e	56	03.00	

05d 20h

DBN	137.64	342	ePKP	52	04.00	-11.9X	LSF	143.94	342	ePKP	52	22.20	-5.2X			iScS	02	01.20			
	Z 20s		22.50um			6.9Msz	MFF	144.11	344	ePKP	52	22.40	-5.2X	OMA	5.50	341	P	48	25.40	0.4		
			e	52	18.00		CVF	144.11	331	ePKP	52	21.30	-6.5X	TMS	5.51	355	P	48	25.10	-0.1		
			iPP	55	03.00		MEI	144.20	318	PKP	52	29.50	1.5				iS	49	25.50			
			iPKS	55	53.00		FRF	144.35	334	ePKP	52	22.40	-5.7X	TAT	5.57	356	Pc	48	24.50	-1.5		
			iSS	13	23.00		GIB	144.43	320	PKP-	52	28.50	-0.1				iS	49	25.50			
			iSSS	18	08.00		LRG	144.55	334	ePKP	52	23.20	-5.2X	KTJ	5.62	349	P	48	25.10	-1.6		
ATH	137.96	314	ePKP	52	04.00	-13.0X	LMR	144.59	334	ePKP	52	23.20	-5.3X	SHJ	5.64	317	P	48	27.10	0.1		
			ePP	55	04.00		RJF	144.79	341	ePKP	52	24.20	-4.6X				iS	49	34.70			
			eSS	13	00.00		CAF	144.95	340	ePKP	52	24.60	-4.6X				ScS	02	05.00			
BNS	138.00	340	ePKP	52	17.80	1.1	SOB3	145.01	128	ePKP	52	28.00	-2.1	AJI	5.72	349	P	48	26.80	-1.2		
OHR	138.35	320	ePKP	52	11.10	-6.6X				e	52	29.60					S	49	30.20			
			i	52	18.80					e	52	31.80		HMM	5.75	337	P	48	28.00	-0.3		
			i	55	27.30					e	52	39.40					eS	49	34.00			
ENN	138.58	341	ePKP	52	14.00	-3.7X	ERC	145.28	322	PKP	52	29.00	-0.8				ScS	02	04.50			
			i	52	22.00					e	01	42.50		KYS	5.77	358	eP	48	26.10	-2.5		
			ePP	55	10.50		LFF	145.37	341	ePKP	52	25.80	-4.0X	SHZ	5.79	344	P-	48	28.70	-0.2		
KBA	138.63	332	ePKP	52	11.00	-7.2X	LPO	145.45	341	ePKP	52	26.20	-3.8X	MIS	5.82	348	P-	48	28.60	-0.6		
			e	52	15.40		BNG	146.81	259	iPKPc	52	31.40	-1.7				S	49	35.10			
			e	55	00.00			1.0s		31.60nm				OWA	5.86	323	P-	48	30.20	0.4		
FUR	138.73	334	ePKP	52	11.30	-6.8X	BCAO	146.82	259	e(PKP)	52	31.00	-2.2				eS	49	37.00			
	Z 18s		38.00um			7.2Msz	PTO	151.15	351	iPKP	52	41.00	2.0				eScS	02	03.00			
LJU	138.80	330	ePKP	52	15.60	-2.7X	TOL	151.41	344	PKPc	52	45.00	5.5X	YOK	6.04	354	P	48	31.50	-0.6		
			ePP	55	12.00					iPP	55	38.00					eS	49	37.00			
			ePKS	55	50.50					iPKS	57	10.00		OYM	6.07	351	iPd	48	31.20	-1.4		
			ePPP	58	14.50					iSS	16	30.00		TSU	6.21	329	P-	48	35.70	1.3		
TIR	138.81	320	PKP	52	17.00	-1.4	ALI	151.63	337	iPKPd	52	42.00	2.2X				S	49	46.00			
UCC	139.03	342	ePKP	52	11.00	-7.5X	PDA	152.86	21	PKP	52	53.50	11.9X	FUN	6.22	348	P	48	35.00	0.4		
			PKP	52	19.50		YND	153.35	253	PKP+	52	47.99	4.8X	SRY	6.25	352	iPd	48	32.70	-2.2		
TRI	139.42	330	iPKP	52	19.30	-0.1	LIS	153.60	351	PKP	52	46.00	3.4X	TOK	6.28	355	P-	48	34.20	-1.1		
			iPP	55	16.20					i	53	07.60					iS	49	43.50			
			i	56	50.00					LR	54	24.00		WKYJ	6.30	321	P-	48	36.60	1.0		
			eSKS	59	22.00					ePP	56	30.00		CHO	6.30	3	P	48	33.20	-2.4		
WLF	139.45	340	ePKP	52	13.00	-6.3X				eSKS	59	33.00					iS	49	40.30			
			PP	55	20.00		CRT	153.76	341	ePKP	52	45.50	2.5X	IIDJ	6.40	341	P-	48	36.60	-0.4		
			PPS	07	38.00		ALR	154.71	339	iPKP	52	47.00	2.9X	KOF	6.42	346	P-	48	36.60	-0.6		
			SS	13	38.00					i	53	05.50					eS	49	49.00			
BUN	139.54	337	ePKP	52	15.50	-4.1X				i	53	15.50		NAG	6.43	334	P-	48	37.80	0.6		
DOU	139.58	342	PKP	52	13.00	-6.5X	TEC	154.99	335	iPKP	52	52.00	7.5X				S	49	48.30			
			PP	55	18.00		SFS	155.19	345	iPKPc	52	49.00	4.2X	IID	6.45	341	P-	48	37.60	0.0		
			SKP	56	00.00					i	53	16.00					S	49	47.80			
			PKKP	01	33.50					iPP	55	21.00		NAR	6.53	325	P	48	39.50	1.0		
			PPS	07	40.00					iSP	07	08.00		WKY	6.54	318	P-	48	40.30	1.5		
			SS	13	40.00					iSS	17	05.00					iS	50	00.00			
CDF	140.11	338	ePKP	52	13.80	-6.9X	TAM	158.80	301	PKP	53	17.00	27.1X	MRT	6.55	307	P-	48	40.60	1.7		
CTI	140.18	332	PKP	52	14.00	-6.9X	KIC	168.95	237	ePKP	53	02.60	3.5X				S	49	58.00			
			e	55	20.00					e	54	15.80		OSK	6.56	323	P-	48	40.20	1.2		
			e	01	35.00					PP	58	01.80					iS	49	59.30			
SLE	140.18	336	PKP	52	14.50	-6.3X	MBO	176.63	57	ePKP	53	03.80	1.9				ScS	02	05.30			
ECH	140.32	338	PKP	52	18.00	-3.0X				e	53	10.70		DDR	6.64	352	iPd	48	38.00	-2.2		
BAF	140.70	338	ePKP	52	17.00	-4.8X				e	53	25.10					e	49	52.80			
LLS	140.70	335	PKPc	52	19.00	-3.0X				e	54	08.90		OSA	6.68	323	P-	48	42.00	1.4		
BSF	140.78	338	ePKP	52	15.00	-6.9X				e	54	50.90					eS	50	04.00			
HAU	140.79	338	ePKP	52	15.20	-6.7X				e	58	38.90					eScS	02	07.00			
SAL	141.02	332	PKP	52	19.00	-3.3X				e	58	57.90		GIF	6.71	334	P	48	41.30	0.4		
			e	56	07.00					e	59	37.90					eS	49	57.00			
PRO	141.12	329	PKP	52	22.50	0.0				e	01	15.00		CHJJ	6.72	350	P	48	39.40	-1.7		
TMA	141.36	334	PKPc	52	13.50	-9.6X				e	01	34.90		KMG	6.77	353	P	48	39.80	-1.9		
NEC	141.41	337	PKP	52	24.50	1.5				e	02	13.00					iS	49	52.80			
MMK	141.78	335	PKP	52	13.40	-10.6X				e	03	10.90		SUM	6.77	318	P-	48	43.10	1.3		
DUI	141.83	325	PKP	52	22.00	-1.9				e	09	27.40					eS	50	00.00			
PCN	141.84	333	PKP	52	30.00	6.3X	S.D. = 1.4 on 257 of 526 obs.							KAKJ	6.77	358	P-	48	38.50	-3.3X		
AQU	141.95	326	PKP	52	21.50	-2.7X								TSK	6.78	358	eP	48	38.20	-3.7X		
PRG	141.96	328	PKP	52	24.00	-0.1	SEP 06, 1982 01h 47m 03.85± 0.20s							TKS	6.79	315	P-	48	43.80	1.8		
DIX	141.98	336	PKP	52	19.40	-5.0X	29.414 N ± 1.4km 140.397 E ± 1.5km										iS	50	04.70			
FIR	142.05	330	PKP	52	18.00	-6.2X	DEPTH = 185.1 ± 1.7 km							HIK	6.82	330	P	48	43.20	0.9		
			iPP	55	40.00		6.5mb (97 obs.)										eS	50	02.00			
			iSKS	59	03.00		SOUTH OF HONSHU, JAPAN (211)										eScS	02	07.00			
PRT	142.05	330	PKP	52	24.00	-0.2	Felt (III JMA) at Toteyama and							KYO	6.84	326	P-	48	43.90	1.3		
			i	52	31.60		Fukushima. Felt (II JMA) on										S	50	03.20			
ORO	142.12	335	PKP	52	21.50	-2.9X	Chichi-jima, Hachijo-jima and										eScS	02	05.00			
SSC	142.28	345	ePKP	52	18.00	-6.4X	Oshima and at Yokohama, Choshi,							KOB	6.87	321	P-	48	44.80	1.7		
LOR	142.29	340	ePKP	52	18.60	-6.0X	Tokyo, Kumagaya, Mito,										eS	50	03.00			
MNS	142.32	327	PKP	52	18.00	-6.7X	Utsunomiya, Onahama, Kakioka,										eScS	02	05.00			
			i	56	04.50		Sendai, Morioka, Miyako and							MIT	6.95	0	P	48	42.00	-2.0		
LBF	142.50	340	ePKP	52	19.70	-5.3X	Ofunato.										iS	49	55.00			
SSF	142.59	340	ePKP	52	19.80	-5.2X								MAE	7.06	351	P	48	43.40	-2.1		
GRR	142.65	345	ePKP	52	19.00	-6.1X	CBI	2.80	145	P-	47	43.30	-7.4X				iS	50	01.20			
RMP	142.70	326	iPKP	52	20.00	-5.4X				S	48	18.50		TKSJ	7.07	312	P	48	47.50	1.8		
			iPP	55	28.00		HJJ	3.71	352	P+	48	01.00	-1.0	KAZ	7.08	348	eP	48	46.00	0.1		
			iPS	05	48.00					iS	48	43.90					eS	50	12.00			
SMF	142.84	340	ePKP	52	20.20	-5.3X	TK01	4.95	332	P	48	18.20	0.5	UTS	7.12	357	P	48	42.70	-3.7X		
AVF	142.88	340	ePKP	52	20.20	-5.3X	TK02	5.05	334	P-	48	19.80	0.8				S	49	59.70			
LPF	143.02	345	ePKP	52	20.60	-5.1X	TK03	5.17	337	P-	48	21.40	0.8				eScS	02	05.00			
MZF	143.64	340	ePKP	52	21.30	-5.6X	TK04	5.40	337	P	48	24.40	0.7	ASZ	7.14	299	P-	48	48.30	1.7		
TCF	143.69	341	ePKP	52	21.40	-5.6X	OSH	5.40	351	P-	48	23.10	-0.7				S	50	13.00			
PYM	143.90	340	PKPd	52	25.00	-2.4X				S	49	18.50		KOC	7.17	307	P-	48	49.30	2.3		

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06d 01h

			S	50	12.40						eS	50	58.00			SSE	16.69	281	iPd	50	48.00	-0.4
			eScS	02	08.00						eScS	02	08.00				N 17s	197.00um				
HIM	7.25	320	P-	48	49.30	1.2	SAI	9.01	321	P	49	11.00	-0.2						eS	53	58.00	
			iS	50	15.50					S	50	57.20		KUR	16.86	18	Pc	50	52.00	1.6		
TKM	7.28	314	P-	48	50.40	1.9	ISN	9.02	5	P+	49	07.70	-3.7X				iS	53	56.00			
			iS	50	17.00					iS	50	39.00		ANP	17.30	260	Pd	50	57.00	1.2		
			eScS	02	07.00					eScS	02	08.00					S	54	06.00			
MAT	7.34	346	P-	48	47.80	-1.6	SHNJ	9.19	303	P-	49	15.50	1.8	TATO	17.39	260	iPd	50	56.50	-0.2		
			S	50	06.00		SHN	9.24	302	P	49	16.30	2.1	MDJ	17.43	333	Pd	50	54.30	-2.7		
MAI	7.38	326	P	48	50.60	0.8				S	51	04.90					S	54	00.00			
			eS	50	18.00					ScS	02	08.70					ScP	58	48.50			
MZH	7.39	326	P	48	50.60	0.6	SAG	9.44	296	P-	49	19.50	2.7				ScS	02	28.00			
			eS	50	18.00					S	51	05.20		HWA	17.63	256	Pd	50	59.70	0.4		
NGN	7.46	346	P-	48	49.70	-1.2				eScS	02	10.00					S	54	20.00			
			eS	50	08.20		FKK	9.51	298	P-	49	20.30	2.6	YSS	17.67	5	Pd	50	59.00	-0.6		
FUK	7.49	333	P-	48	52.50	1.1				S	51	13.20					iS	54	15.40			
			S	50	15.60					ScS	02	10.50		TCU	18.36	258	P	51	06.90	-0.1		
ONA	7.52	3	P	48	48.60	-3.1X	NZJ	9.61	266	P	49	22.00	2.9				S	54	30.30			
			iS	50	06.80					eS	51	13.00		TTN	18.51	253	P	51	09.50	0.9		
			ScS	02	04.00		NGS	9.61	293	P	49	21.70	2.6	CN2	18.67	324	Pd	51	08.00	-2.1		
OKA	7.60	315	P	48	54.40	1.6				S	51	10.60					S	54	25.00			
			S	50	25.20		OFU	9.69	6	P+	49	16.00	-4.1X	NJ2	18.70	283	Pd	51	10.00	-0.6		
			eScS	02	08.00					iS	50	55.60					sP	51	55.00			
TYK	7.70	324	P-	48	55.10	0.9				ScS	02	09.20					iS	54	30.00			
			iS	50	24.30		MIZ	9.71	3	iPd	49	17.80	-2.6				ScP	58	51.00			
			eScS	02	08.00		MRK	10.28	3	P	49	25.00	-2.8				ScS	02	31.00			
UWA	7.71	302	P-	48	56.00	1.8				S	51	10.40		HEN	19.17	252	eP	51	19.00	3.6X		
TOY	7.75	341	P	48	55.00	0.3	AKI	10.28	359	P	49	25.00	-2.8				S	54	20.30			
			(S)	50	21.00					eS	51	13.00		QZH	19.90	262	Pd	51	22.30	-0.5		
KAN	7.78	337	P-	48	55.30	0.2	MIY	10.29	7	P	49	26.00	-1.9				sP	52	10.00			
			eS	50	15.00					iS	51	08.80					ScS	02	38.00			
MTY	7.85	306	P-	48	58.70	2.6				eScS	02	12.00		CVP	20.60	240	ePd	51	30.00	0.1		
			iS	50	31.00		FKJ	10.44	291	P-	49	31.70	1.8				eS	51	40.00			
			eScS	02	07.00					eS	51	37.00		TIA	20.68	295	Pd	51	29.00	-1.6		
TKD	7.88	347	P	48	54.50	-1.9	IZU	10.58	300	P-	49	34.00	2.3				PP	51	58.50			
			S	50	20.50					eS	51	29.00					S	55	04.00			
NIIJ	7.89	352	P	48	53.10	-3.5X				ScS	02	14.50					ScP	58	55.20			
TOTJ	7.96	321	P	48	59.50	2.0	HAC	11.12	4	P	49	35.00	-3.8X				ScS	02	37.00			
TOT	8.03	321	P	48	58.50	0.0				eS	51	28.00		SZP	21.73	241	eP	51	40.50	-0.5		
			S	50	33.30					eScS	02	12.00					eS	51	46.00			
			eScS	02	09.00		NGO	11.33	259	P	49	43.50	2.0				eS	55	30.50			
MYZ	8.12	290	P	49	02.20	2.6				S	51	55.00		BAG	22.33	239	Pd	51	46.00	-1.1		
			eS	50	45.00		AOM	11.38	1	P	49	41.30	-0.8	LGP	22.38	227	iPc	51	48.50	1.2		
			eScS	02	10.00					S	51	37.00					eS	52	23.00			
NOB	8.12	295	P	49	00.80	1.2				ScS	02	14.30		BJI	22.49	305	Pd	51	47.00	-1.2		
			S	50	44.80		NAH	11.70	257	P	49	47.60	1.4				pP	52	18.00	157kmX		
TAJ	8.25	281	P-	49	03.80	2.5				iS	52	03.50					sP	52	36.00			
			S	50	44.40		HAK	12.38	1	P	49	51.60	-3.2X				eS	55	41.00			
			ScS	02	10.10					S	52	02.90					SS	56	40.00			
SHK	8.31	310	iPd	49	03.30	1.2				eScS	02	15.00					ScP	58	55.00			
FKS	8.32	0	P	48	58.00	-4.2X	KMJ	12.41	259	P	49	56.00	0.7				ScS	02	41.00			
			iS	50	29.00					iS	52	19.00		WHN	22.58	279	P	51	49.50	0.3		
			ScS	02	06.70		URA	12.86	8	P	49	59.80	-1.2				pP	52	20.00	154kmX		
HIR	8.37	308	P	49	04.70	1.8				eS	52	13.00					S	55	38.50			
			S	50	45.00					eSeS	02	19.00					SS	56	36.00			
			ScS	02	07.00		MRRJ	13.00	2	P	49	59.00	-3.7X				ScS	02	44.00			
KAGJ	8.41	284	P	49	05.50	2.1	HOOJ	13.15	9	P	50	02.90	-1.7	MAN	23.10	235	eP	52	53.00	58.6X		
OIT	8.41	299	P	49	06.40	3.0X	SUT	13.35	359	P	50	06.10	-1.0	OCP	23.12	235	P	51	46.00	-8.5X		
			eS	50	56.00					S	52	28.80		SKR	24.30	25	eP	52	05.00	-0.4		
WAJ	8.47	341	P	49	03.30	-0.9	SAP	13.64	3	P	50	07.80	-3.0				epP	52	36.00	153kmX		
			eS	50	38.00					eS	52	33.00					iS	56	12.00			
NII	8.55	353	P-	49	04.60	-0.6				eScS	02	17.00		HKC	24.61	259	P	52	08.00	-0.5		
			eS	50	35.00		OBI	13.67	9	P	50	10.10	-1.1	TIY	24.66	297	Pd	52	08.00	-1.0		
MTS	8.64	316	P	49	08.10	1.8				S	52	32.00					sP	52	59.50			
			iS	50	52.30		KUS	13.91	12	P	50	12.10	-2.1				S	56	14.00			
ASJ	8.70	296	P-	49	09.50	2.1				S	52	35.60		GZH	25.04	262	Pd	52	10.60	-1.9		
			S	50	54.10		KUSJ	14.09	13	P	50	14.60	-1.8				pP	52	44.60	169kmX		
YAMJ	8.74	358	ePc	49	06.00	-1.7	MYK	14.23	255	P	50	20.50	2.3				sP	53	01.60			
			S	50	37.50					eS	53	06.20					iS	56	19.60			
			ScS	02	06.50		ASA	14.41	6	P	50	18.00	-2.5				ScP	59	08.60			
KAG	8.76	287	P-	49	10.50	2.5				S	52	49.50		MCO	25.20	260	iP	52	14.50	0.5		
			S	50	50.40		NEM	14.50	15	P	50	19.80	-1.7	CGP	25.54	218	ePd	53	15.60	58.4X		
			ScS	02	10.00					iS	52	50.00		HHC	26.08	304	Pd	52	20.50	-1.6		
AIK	8.77	349	P	49	04.90	-3.2X	RMJ	14.54	4	P	50	20.00	-2.1				PP	53	08.00			
			eS	50	37.00					S	52	52.50					S	56	38.00			
YAM	8.82	360	P+	49	06.00	-2.7	ASAJ	14.78	6	P	50	22.70	-2.4	DAV	26.23	215	Pc	52	23.00	-0.5		
			S	50	37.50		ABJ	14.90	11	P	50	25.80	-0.7	XAN	27.11	288	Pd	52	30.00	-1.4		
			ScS	02	06.50					eS	53	00.00					PP	53	21.00			
SEN	8.83	3	P-	49	06.00	-2.9				eSeS	02	21.00					PcP	55	53.00			
			S	50	36.20		ISI	15.34	255	P	50	35.70	3.7X				S	56	53.00			
			ScS	02	07.00					S	53	35.00					PcS	59	31.00			
MVI	8.88	248	P	49	08.00	-1.5	WAK	16.01	3	P	50	40.00	-0.1				ScS	03	05.00			
			S	50	48.60					eS	53	31.00		PET	27.13	25	Pd	52	32.00	0.7		
HMD	8.92	310	P	49	12.60	2.5	PJG	16.28	164	eP	50	42.20	-1.5				pP	53	06.00	165kmX		
			S	50	52.00		GUA	16.34	164	eP	50	42.80	-1.6				iS	56	57.00			
			eScS	02	06.00			0.8s	1580.00nm				6.5mb	BTO	27.14	302	Pd	52	30.00	-1.7		
KUM	8.97	295	P	49	13.50	2.8				eS	53	36.00					pP	52	53.00	105kmX		

06d 01h

PPR	28.16	230	ePd	52	41.20	0.3
			eS	53	16.50	
TUP	29.07	335	Pd	52	47.20	-1.4
GYA	29.89	273	Pd	52	55.00	-1.3
			sP	53	47.00	
			PP	54	03.00	
			S	57	39.00	
LZH	31.32	292	iPd-	53	07.00	-1.8
	6.0s		********nm			7.0mb X
N	13s		34.40um			
			PP	53	48.00	
			SP	54	11.00	
			PP	54	27.00	
			iPcP	55	58.00	
			S	58	02.00	
			ScP	59	04.50	
			PcS	59	29.00	
			SS	00	27.00	
			iScS	03	23.00	
MGD	31.48	10	Pd	53	09.20	-0.5
			ipP	53	44.00	165kmX
			isP	53	56.00	
			iS	57	58.00	
			isS	58	54.00	
MNI	31.52	211	eP	53	10.20	-0.2
	0.6s		761.00nm			6.6mb
			eS	58	01.50	
CD2	31.63	282	Pd	53	10.30	-1.1
			sP	54	03.00	
			S	58	06.00	
			sS	59	07.00	
JAY	31.75	179	ePc	53	11.50	-1.0
BGV	31.83	263	P	53	24.00	10.8X
MOM	31.99	167	eP	53	11.00	-3.5X
			e(S)	59	28.00	
KKM	32.58	229	ePd	53	19.80	0.0
	0.5s		150.00nm			5.9mb
			e	56	25.30	
			e	58	25.20	
			e	03	23.50	
KVG	33.33	161	eP	53	23.00	-3.1X
			eS	59	28.00	
YAK	33.36	351	Pd	53	24.30	-1.6
			iS	58	24.50	
TBL	33.62	172	eP	53	29.50	0.9
KMI	33.65	272	iPd-	53	28.00	-1.2
	5.0s		27.00nm			4.2mb X
N	19s		106.00um			
			PP	54	20.00	
			SP	54	54.00	
			PP	54	58.00	
			iS	58	38.00	
BOD	33.75	335	Pd	53	30.00	0.6
SMY	33.98	37	eP	53	33.10	1.8
SEY	34.39	10	Pd	53	35.00	0.2
			esP	54	22.70	
			iS	58	46.70	
TZZ	34.49	179	eP	53	33.00	-3.2X
GTA	34.68	298	Pd	53	35.80	-1.9
			PP	54	54.00	
			iS	58	54.00	
			ScP	59	38.00	
ZAK	34.84	317	Pd	53	37.60	-1.1
			esP	54	27.00	
			eS	58	58.00	
			esS	59	57.60	
MDG	34.85	171	eP	53	39.00	-0.1
			eS	58	54.00	
AAI	34.93	202	ePd	53	39.70	-0.1
			e(S)	54	59.00	
IRK	35.04	321	ePc	53	38.00	-2.4
			esP	54	29.00	
			eS	59	00.00	
RAB	35.27	159	iPc+	53	40.00	-2.7
LAT	36.42	169	eP	53	51.00	-1.2
MOY	36.68	319	Pd	53	53.00	-1.1
ADK	38.79	42	eP	54	11.30	-0.4
PCT	38.80	256	eP	54	13.00	0.8
	1.0s		328.00nm			5.9mb
LMG	38.82	168	eP	54	10.00	-2.6
CHG	39.10	264	iPd	54	14.00	-0.7
	1.2s		359.00nm			5.9mb
			eS	03	16.00	
PMG	39.14	169	ePc	54	12.00	-3.0X
			eS	59	51.00	
KOI	39.46	278	P	54	17.00	-0.7
			ePP	55	42.00	
			e	57	18.00	
			eS	59	54.00	
			e	01	23.00	
			e	02	14.00	
			e	04	03.50	
BDT	39.70	262	iPd	54	13.00	-6.6X
	0.8s		514.00nm			6.2mb
MKS	39.87	214	iPc	54	20.70	-0.3
	0.6s		258.00nm			6.0mb
ESA	40.20	164	iPc	54	22.50	-1.1
UER	40.72	316	Pc	54	26.50	-1.1
KHM	41.04	276	eP	54	29.00	-1.8
KUPT	42.54	205	eP	54	41.20	-1.5
			eS	55	33.70	
LSA	42.57	283	Pd	54	43.20	-0.4
			sP	55	35.20	
			PP	56	24.20	
			PcS	00	27.20	
			S	00	52.20	
			ScS	04	25.20	
TIK	42.74	355	Pd	54	44.50	0.7
			sP	55	37.00	
			eS	00	56.00	
			esS	01	57.00	
HNR	42.97	151	eP	54	46.00	-0.3
NKI	43.69	43	eP	54	51.80	0.1
WMQ	43.96	304	Pd	54	53.40	-0.8
			sP	55	46.00	
			PP	56	37.00	
			PcP	56	40.00	
			ScP	00	13.50	
			S	01	10.00	
			SS	04	20.00	
AGT	44.02	275	P	54	58.50	3.8X
KGM	44.54	239	ePd	54	59.40	0.4
	1.3s		1530.00nm			6.4mb
			eS	00	17.00	
IPM	44.67	244	iPd	55	00.10	0.1
			e	00	19.10	
			e	01	26.50	
ILT	45.43	20	Pd	55	05.80	0.5
			ipP	55	40.50	155kmX
			isP	55	53.00	
			iS	01	31.00	
			isS	02	34.00	
TRT	45.56	220	iPc	55	05.90	-1.0
	0.9s		158.00nm			5.5mb
			eS	57	06.50	
ELT	45.75	317	Pd	55	05.70	-2.3
			iS	01	32.00	
KNA	46.28	196	eP	55	11.00	-1.6
			eS	01	41.00	
UKR	46.38	314	P	55	10.80	-2.3
CAL	46.96	274	P	55	21.00	3.0X
TSI	47.27	245	ePd	55	20.00	-0.5
	0.7s		947.00nm			6.4mb
			eS	02	05.00	
PSI	47.48	244	ePd	55	21.20	-0.9
	0.8s		51.80nm			5.1mb X
NVS	47.73	319	Pd	55	21.70	-1.8
LEM	47.88	226	iPd	55	25.00	-0.3
			iS	01	57.00	
PPI	48.36	239	eP	55	28.00	-0.8
	1.0s		827.00nm			6.2mb
SDN	48.93	41	eP	55	32.60	-0.1
SEM	49.20	313	Pd	55	32.80	-2.1
			eS	02	24.20	
WB2	49.41	187	P	55	34.20	-2.6
			iScP	00	35.00	
			iS	02	21.00	
			iScS	05	15.00	
			SKKP	25	47.00	
WRA	49.42	188	Pc	55	34.40	-2.4
	0.8s		298.00nm			5.9mb
CTA	49.54	173	P	55	35.80	-1.9
			ipP	56	15.00	175kmX
			iScP	00	33.00	
			iS	02	24.00	
			iScS	05	11.00	
CTAO	49.54	173	eP	55	35.50	-2.2
			e	56	09.00	
NRI	49.77	338	Pd	55	37.50	-1.4
			iS	02	31.00	
ISO	49.84	181	eP	55	38.00	-2.0
			e	56	11.00	
			i	00	37.00	
			e	02	31.00	
VAR	50.70	280	P+	55	45.00	-1.6
PRZ	50.82	303	Pc	55	46.50	-1.0
			eS	02	53.00	
TLG	51.47	304	Pd	55	52.00	-0.3
AAA	51.79	304	Pd	55	54.00	-0.7
SVW	52.19	34	P	55	59.00	1.6
TTA	52.26	31	eP	55	58.70	0.8
NRN	52.73	302	eP	56	01.00	-0.9
KSH	53.06	299	Pd	56	04.00	-0.1
			sP	56	55.00	
			PcP	57	12.00	
ASPA	53.14	187	Pd	56	03.00	-1.6
			eS	03	17.00	
VIS	53.16	271	P-	56	01.00	-4.0X
DDI	53.44	288	P	56	15.30	8.3X
KDC	53.53	38	eP	56	07.20	0.1
FRU	53.54	303	Pd	56	06.50	-1.0
			isP	56	57.40	
			eS	03	30.00	
IMA	53.75	28	eP	56	09.70	0.8
MBL	54.04	204	eP	56	10.00	-1.3
PVC	54.07	147	Pc	56	12.50	1.0
			i	00	56.20	
			iS	03	34.70	
NDI	54.61	286	P-	56	14.00	-1.4
			ipP	57	06.00	234kmX
			ePP	58	28.50	
			iS	03	41.50	
			iSS	05	16.50	
KOU	54.76	152	Pc	56	15.90	-0.5
			i	00	51.90	
			iS	03	44.20	
			P'P'	26	25.60	
PMR	55.35	33	eP	56	20.00	-0.3
Z	20s		16.00um			6.1Msz
ANR	55.55	301	Pd	56	21.00	-1.1
HON	55.69	83	P	56	24.00	0.7
COL	56.07	29	iPd	56	25.80	0.3
			iS	04	03.00	
FBA	56.07	29	P	56	27.00	1.5
WBN	56.80	195	eP	56	30.00	-1.0
KHO	56.88	298	Pd	56	30.00	-1.7
NAU	56.95	208	eP	56	31.00	-1.0
NOU	57.22	151	Pc	56	35.50	1.6
			i	01	08.60	
			iS	04	16.50	
			i	06	13.00	
			P'P'	26	30.00	
HYB	57.42	273	Pd-	56	33.80	-1.8
			epP	57	14.50	177kmX
			ePcP	57	28.50	
			esP	57	37.00	
			ePP	58	46.00	
			ePPP	00	11.00	
			eScP	01	11.00	
			eS	04	14.00	
			eSP	04	26.00	
			esS	05	25.00	
			eScS	06	04.00	
			eSS	08	16.00	
			eP'P'	26	18.00	
GAR	57.46	300	P	56	33.90	-1.7
			eS	04	22.20	
TAS	57.71	303	Pd	56	36.00	-1.2
BRS	57.71	167	P	56	35.00	-2.3
			i	56	37.40	
			ePP	57	09.00	
			eS	04	12.00	
KUL	58.16	299	Pd	56	39.00	-1.4
			iS	04	31.00	
DSH	58.74	299	Pd	56	42.80	-1.6
			iS	04	37.80	
NDF	58.97	138	eP	56	48.00	1.9
			e	56	53.00	
			pP	57	22.00	143kmX
MEK	59.52	203	eP	56	48.00	-1.8
VUN	59.76	137	iPd	56	52.40	0.9
	1.0s		392.00nm			6.2mb
SAM	59.80	301	Pd	56	50.00	-1.6
			ipP	57	26.00	152kmX
			iS	04	47.90	
SVA	59.85	137	iPc	56	54.30	2.2
KHE	59.93	349	Pd	56	52.00	0.0
			iS	04	54.00	
GBA	60.01	269	P	56	53.00	-0.4
SVE	60.44	322	Pd	56	55.00	-0.7
			iS	04	58.00	

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COO	60.65	169	eP	56	57.00	-0.5	TAU	72.25	175	Pd	58	12.00	1.8					ipP	59	16.80	180kmX
			e	57	36.00					ePP	58	45.00						isP	59	42.40	
			e	01	26.00					eS	07	16.00						iPP	01	21.00	
			e	05	06.00		ONE	72.30	152	iP	58	16.20	5.5X					epPP	02	16.00	
STK	60.97	179	Pc	56	56.80	-2.7				pP	58	56.00	164kmX					ePPP	03	16.00	
			e	04	46.00		PGC	72.32	44	eP	58	12.00	1.2					eS	08	00.00	
			e	26	15.00		MAK	72.60	310	P	58	12.00	-0.5					ePS	09	00.00	
			e	29	42.00		TRO	72.65	342	iP	58	12.40	0.0					eSS	13	00.00	
POO	61.06	276	P-	57	00.50	-0.1	TEH	72.76	302	eP	58	15.00	1.2					e	25	52.00	
			PP	59	14.50		MOS	72.91	325	Pd	58	13.00	-1.1					e	28	54.00	
			PPP	00	04.00					isP	59	03.00		WDC	76.41	51	iPd	58	35.60	1.2	
			S	05	12.50					iS	07	27.00		RAR	76.50	124	P	58	39.00	3.9X	
			SS	09	21.50		KJF	73.02	335	iPd-	58	14.80	0.2				S	08	16.00		
KOD	61.51	266	Pd	57	03.00	-0.9		Z 20s		16.40um			6.3Msz	TRZ	76.53	152	iP	58	36.60	1.8	
			PcP	57	51.00					iPP	58	59.00					pP	59	11.00	138kmX	
			PP	59	15.00					iSP	59	09.20		RMT	76.63	52	eP	58	37.50	2.0	
			PPP	00	48.00					ePP	01	00.00		RXF	77.12	41	iPd	58	39.20	0.9	
			PS	05	16.00					ePPP	02	44.00		NWRM	77.14	53	eP	58	39.20	0.8	
			PPS	05	32.00					eS	07	24.00		MIN	77.16	51	iP	58	39.20	0.5	
			ScS	06	50.00					eScS	08	00.00		LHD	77.17	42	iPd	58	40.00	1.4	
			SS	09	16.00					eSS	09	00.00		SNZO	77.20	154	e(P)	58	39.00	0.6	
			SSS	10	32.00		DAG	73.28	355	iPd	58	16.50	0.6	WEL	77.20	154	P	58	36.00	-2.5	
			LQ	11	49.00			2.0s		765.00nm			6.1mb				pP	59	14.00	154kmX	
			LR	14	40.00					iS	07	32.00					PP	01	05.00		
INK	61.60	25	iPd	57	03.30	-0.1	KIR	73.34	340	iP	58	16.70	0.2				S	08	10.00		
	0.4s		201.00nm			6.3mb	GRO	73.63	311	Pd	58	18.00	-0.5				LQ	15	00.00		
ARU	61.62	321	Pd	57	02.20	-1.4				isP	59	10.00					LR	23	00.00		
			epP	57	37.00	146kmX				iS	07	40.00		LDM	77.22	41	iPd	58	40.00	1.3	
			eS	05	12.00		OBN	73.69	325	Pd	58	18.40	-0.2	SOC	77.40	313	Pd	58	39.50	-0.2	
KLG	62.52	198	Pd	57	07.60	-2.3				iS	07	34.00					iS	08	16.00		
			eS	05	20.00		COR	74.13	48	iPd	58	20.00	-1.4	CLX	77.45	42	iPd	58	42.20	2.6	
TRD	62.78	264	P	57	08.00	-3.9X	PNT	74.31	42	iPd	58	23.40	1.0	ORV	77.59	52	iP	58	41.70	0.8	
SIT	62.82	38	eP	57	13.20	1.7		1.2s		1040.00nm			6.4mb	BKS	77.87	53	ePd	58	43.50	1.1	
RIV	63.72	170	eP	57	18.00	0.4	KRV	74.34	308	Pc	58	21.00	-1.7		0.6s		860.00nm			6.7mb	
YOU	63.80	173	P	57	16.10	-2.1				iS	07	42.00			Z 20s		26.00um			6.6Msz	
BAL	63.81	203	eP	57	16.00	-2.3	PUL	74.35	330	Pd	58	23.00	0.7		N 20s		16.00um				
ADE	64.05	182	P	57	18.50	-1.3				isP	59	16.00			E 20s		22.00um				
MBC	64.07	15	iPd	57	19.70	0.2				iS	07	44.00					iPcP	58	55.50		
	0.9s		381.00nm			6.3mb	SUF	74.42	334	P	58	22.80	0.1				iPP	59	35.10		
KLB	64.37	201	eP	57	20.00	-1.9				ePKKP	17	34.00					eSP	00	07.00		
CAN	64.90	172	P	57	24.90	-0.3	KRP	74.62	152	iPc	58	24.10	0.0				iS	08	24.40		
			e	58	05.00					PcP	58	27.00					eSKS	08	38.60		
MUN	65.24	203	eP	57	27.00	-0.4				pP	59	01.00	150kmX	MSZ	77.89	160	iP	58	40.80	-1.4	
NWAO	65.77	201	Pc	57	29.70	-1.2				PP	01	38.00					PcP	58	44.00		
BFD	66.27	178	eP	57	33.00	-0.9				S	07	51.00					i	58	49.00		
MHI	66.46	300	Pd-	57	34.80	-0.7				e	08	23.00					pP	59	28.00	195kmX	
			eS	06	16.00					e	08	32.00					ScS	08	42.00		
ASH	66.76	302	Pc	57	36.50	-0.7				e	10	23.00		RHP	78.04	159	P	58	44.00	0.8	
TOO	66.80	176	eP	57	36.00	-1.3	GRS	74.83	307	Pd	58	25.20	-0.5				pP	59	19.00	140kmX	
			eS	06	14.00					epP	58	59.60	138kmX				S	08	13.00		
VAN	66.94	302	Pd	57	36.60	-1.8				iS	07	49.40					ScS	08	27.00		
			isP	58	32.00		VHEM	74.85	46	iPd	58	27.20	1.5	ANN	78.28	315	P	58	43.50	-1.0	
			iS	06	20.00		PYA	75.05	312	Pd	58	26.00	-0.7				iS	08	22.00		
ALE	67.76	3	ePd	57	43.10	0.3				sP	59	16.40		THP	78.38	159	P	58	44.00	-1.0	
	1.0s		738.00nm			6.4mb				iS	07	50.40					PcP	58	47.00		
KAT	67.86	303	Pd	57	43.50	-0.5	WTZ	75.28	151	iP	58	26.70	-1.1				pP	59	21.00	149kmX	
			esP	58	35.00					PcP	58	30.00					PP	01	18.00		
TGI	67.87	296	ePd	57	42.40	-2.1				pP	59	03.00	147kmX				e	07	39.00		
NUE	67.96	129	eP	57	46.00	1.1				e	01	17.00					ScS	08	18.00		
			pP	58	22.00	149kmX	FHC	75.33	51	iP	58	30.40	2.0				e	08	33.00		
KBS	68.02	351	iP	57	45.10	0.7	TAB	75.46	306	iPd	58	29.00	-0.3				e	09	11.00		
			iS	06	34.10		ECZ	75.71	150	iP	58	32.30	2.0	MSL	78.48	305	iPc	58	46.50	0.7	
PHC	69.14	43	eP	57	53.00	1.3				pP	59	05.00	130kmX				iPcP	58	58.50		
	1.1s		278.00nm			5.9mb	BKR	75.77	310	Pd	58	31.00	0.0				e	59	06.50		
APA	69.34	337	Pd	57	51.80	-0.9				iS	07	59.80					e	01	31.50		
			ipP	58	25.00	135kmX	ERE	75.80	308	Pd	58	31.00	-0.1				e	02	51.00		
			isP	58	40.00					isP	59	23.00					eS	08	25.50		
			iS	06	47.00					iS	08	02.00					ePS	09	34.50		
KEV	70.28	340	Pd-	57	58.50	0.2	EDM	75.90	37	iPd	58	32.60	1.2				e	10	18.00		
	Z 18s		19.20um			6.4Msz		1.0s		905.00nm			6.5mb	MHC	78.53	54	iPd	58	47.30	1.0	
			ipP	58	42.50	184kmX	UME	75.91	337	Pd	58	31.00	-0.1	SES	78.60	38	iPd	58	46.60	0.3	
			isP	59	07.50					iS	07	59.00			1.2s		1870.00nm			6.7mb	
			ePPP	02	20.00					i	29	00.70		ARN	78.61	54	eP	58	47.00	0.4	
			eS	06	56.00		LEN	75.98	309	Pd	58	33.00	0.8	KKZ	78.66	156	iP	58	42.20	-4.2X	
			eScS	07	40.00					iS	08	04.00					pP	59	15.00	130kmX	
			esS	08	12.00		VPIM	76.01	48	iPd	58	34.00	1.7	SAO	78.94	54	eP	58	50.00	1.7	
CRZ	70.45	152	iP	58	02.50	2.8	NEW	76.26	42	iPd	58	34.90	1.4	JAS	79.09	53	iPd	58	50.10	1.0	
			pP	58	45.00	177kmX				e	59	20.00		UPP	79.43	334	Pd	58	50.20	-0.2	
			sP	59	39.00		COB	76.27	155	iP	58	32.60	-0.8				iS	08	36.00		
RAO	70.62	142	P	58	02.00	1.1				PcP	58	36.00					i	28	50.30		
			pP	58	42.00	166kmX				pP	59	10.00	151kmX	SCO	79.59	354	iP	58	52.30	1.2	
YKA	70.86	28	P	58	03.10	1.2				PP	02	03.00		PRI	79.79	54	iPd	58	54.20	1.2	
YKC	70.92	28	ePd	58	02.50	0.2				ScS	08	09.00		AMM	79.81	43	ePd	58	53.80	0.7	
	0.7s		421.00nm			6.3mb				e	08	47.00		BMN	80.05	49	eP	58	55.50	1.2	
SOD	71.67	338	P	58	07.00	0.3	GNZ	76.27	151	P	58	36.00	2.6		1.0s		225.00nm			5.9mb	
BAK	71.97	307	P	58	10.00	1.1				e	59	19.00		FRI	80.06	53	iP	58	52.70	-1.5	
			S	07	24.00		NUR	76.29	333	Pd-	58	33.00	-0.3	BUT	80.08	43	iPd	58	56.00	1.5	

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HRY     80.14  42 iPd    58 56.10   1.4
SIM     80.19 316 Pd     58 54.00  -0.8
                eS       08 46.00
LRM     80.25  43 iPd    58 56.80   1.4
APO     80.31 336 P      58 55.22   0.1
MNV     80.42  51 iP     58 58.00   1.6
SLL     80.57 336 P      58 56.78   0.3
FFC     80.60  31 iPd    58 57.40   0.7
                PP       59 41.00
HFS     80.68 336 P      58 57.20   0.2
        0.6s   2670.00nm          7.1mb
                e        32 00.00
NB2     80.88 338 P      58 57.60  -0.5
        0.9s    398.00nm          6.1mb
TBY     81.02 336 P      58 58.70  -0.1
GDH     81.10   5 iPd    59 01.20   2.2
        1.0s    280.00nm          5.9mb
      Z  22s     14.00um          6.3Msz
                ipP      59 48.00 191kmX
                iPP      02 10.00
                iS       09 00.00
                iSS      14 12.00
FCC     81.21  25 iP     59 01.50   1.7
        1.2s    529.00nm          6.1mb
                PP       59 42.00
EUR     81.36  50 iP     59 02.20   0.9
        0.5s     29.00nm          5.3mb X
AFR     81.91 115 eP     59 08.00   3.9X
        1.4s    640.00nm          6.2mb
                ePP      59 48.00
PMO     82.01 112 eP     59 05.80   1.2
        1.4s    425.00nm          6.0mb
                iPP      59 45.80
PPT     82.08 115 eP     59 09.00   4.0X
        1.4s    410.00nm          6.0mb
KIS     82.11 320 Pd     59 04.80   0.1
                isP      59 59.00
                iS       09 07.00
PAE     82.13 115 eP     59 09.00   3.8X
        1.4s    410.00nm          6.0mb
PPN     82.18 115 eP     59 09.00   3.5X
        1.4s    380.00nm          5.9mb
                ePP      59 49.00
TPT     82.23 112 eP     59 06.70   1.0
        1.4s    320.00nm          5.9mb
                iPP      59 47.00
KAS     82.31 313 P-     59 06.80   0.8
VAH     82.36 112 eP     59 07.40   1.0
        1.4s    220.00nm          5.7mb
                iPP      59 47.40
KON     82.45 337 iPd    59 06.40   0.1
TVO     82.46 115 eP     59 11.00   4.0X
        1.4s    675.00nm          6.2mb
RUV     82.53 112 eP     59 08.30   1.0
        1.4s    355.00nm          5.9mb
                iPP      59 48.20
PAS     82.55  55 iPd    59 08.00   0.7
        1.0s    300.00nm          6.0mb
      Z  20s     21.00um          6.5Msz
      N  20s     10.00um
      E  20s     14.00um
                e        59 45.00
                eS       09 13.00
                ePPS     10 20.00
                eSS      14 40.00
                eSSS     18 00.00
CIZ     82.96 150 iP     59 12.10   3.2X
                pP       59 48.00 142kmX
WAR     82.98 327 iP     59 10.00   0.9
                ePP      02 26.00
                e        03 14.00
                e        06 54.00
                eS       09 14.00
LVV     83.04 324 Pd     59 10.00   0.6
                sP       00 02.00
                iS       09 16.00
DUG     83.05  48 eP     59 11.00   1.1
BER     83.26 339 iPd    59 11.40   1.0
CLI     83.27 320 eP     59 11.00   0.3
MII     83.40 321 eP     59 13.00   1.7
AKU     83.76 351 iPd-   59 15.40   2.6
        1.9s   5260.00nm          7.0mb
                e        02 19.00
                iS       09 27.00
                i        28 42.20
VRI     83.99 320 Pd     59 15.00   0.7
TLB     83.99 318 iPd    59 15.00   0.7
COP     84.34 333 iPd-   59 16.10   0.3
      Z  19s     14.00um          6.4Msz
                i        02 18.00
                iPP      02 35.00
                iS       09 23.00
                isS      10 42.00
                isSS     15 55.00
FRB     84.37  12 iPd    59 17.00   1.1
        0.4s    236.00nm          6.3mb
MLR     84.65 320 Pd     59 17.00  -0.8
UZH     84.66 324 Pc     59 18.50   0.9
                ipP      59 57.00 153kmX
                iS       09 26.00
KRA     84.92 326 iPd    59 18.70  -0.2
        1.0s   1390.00nm          6.7mb
      Z  22s     23.40um          6.5Msz
      N  26s     49.70um
      E  26s     66.50um
                i        59 20.70
                i        59 27.20
                i        00 00.00
                i        02 30.00
                i        03 26.00
                iS       09 26.00
                e        17 20.20
                e        26 15.20
MCQ     85.09 169 eP     59 22.00   2.6
GPA     85.10 314 eP     59 19.50  -0.5
MDB     85.12 321 eP     59 20.00   0.0
NIE     85.15 325 iPd    59 16.50  -3.6X
        1.0s   1200.00nm          6.6mb
CEI     85.18 323 eP     59 21.00   0.8
CJR     85.19 322 eP     59 21.00   0.6
HRT     85.19 315 iP     59 20.90   0.4
CMP     85.29 320 eP     59 21.00   0.1
SPC     85.34 325 iPd    59 22.60   1.3
                i(PP)    02 44.50
                eS       09 42.50
CGN     85.42 319 eP     59 23.00   1.5
ISK     85.43 315 eP     59 22.20   0.6
IST     85.48 315 P-     59 22.00   0.1
GLA     85.51  55 eP     59 23.60   1.4
JOS     85.65 325 iPd    59 24.50   1.9
        1.8s   2420.00nm          6.7mb
COZ     85.65 321 eP     59 23.00   0.1
REY     85.72 352 iP     59 25.10   2.5
CTT     85.77 315 iP     59 22.90  -0.4
ALT     85.93 313 iPd    59 23.70  -0.6
DEV     86.09 322 Pd     59 25.00   0.2
KSP     86.12 328 iPd    59 24.50  -0.3
        1.0s    450.00nm          6.3mb
                iPP      02 49.50
                eS       09 33.50
BRN     86.38 331 iPd    59 26.80   0.8
PVL     86.52 318 iPd    59 28.00   1.1
DST     86.55 314 eP     59 26.10  -1.1
EDC     86.59 315 ePd    59 25.80  -1.5
CLO     86.65 321 eP     59 27.00  -0.5
SRE     86.69 321 eP     59 27.00  -0.7
DIM     86.95 317 eP     59 29.00   0.0
HAM     86.96 333 iPd    59 29.70   0.9
BRG     87.16 329 iPd    59 29.70  -0.1
                PP       02 55.00
                SKS      09 43.00
                i        10 55.00
                SS       15 42.00
                P'P'     25 27.00
                SKPP'    28 34.00
                RRPKP    46 05.00
SRO     87.22 325 iPd    59 30.60   0.4
                i        00 23.00
                iPP      02 59.00
                iS       09 42.50
CLL     87.26 330 iPd    59 30.00  -0.3
                i        59 32.00
                i        59 52.00
                PP       02 58.00
                e        03 46.00
                SKS      09 40.00
                S        09 57.00
                e        10 50.00
                SP       11 05.00
                PPS      11 43.00
                SS       15 46.00
                PKKP     17 23.00
                P'P'     25 26.00
                e        26 06.00
                SKPP'    28 25.00
                e        31 55.00
                RRPKP    46 03.00
KDZ     87.33 317 Pd     59 31.00   0.1
SSR     87.37 321 P      59 31.00   0.0
PRA     87.51 329 iPd    59 31.00  -0.5
                pP       00 16.00 181kmX
                PP       03 00.00
                pPP      03 48.00
                (SKS)    09 44.00
                e        11 12.00
                e        24 00.00
PRU     87.52 328 iPd    59 31.50  -0.1
        1.5s   1060.00nm          6.5mb
      Z  17s     17.30um          6.5MszX
      N  18s     21.80um
      E  18s     15.00um
                iPP      03 00.00
                iS       09 36.00
                i        10 56.00
                e        12 00.00
ZST     87.55 326 iPc    59 32.40   0.6
                i(PP)    03 00.70
EZN     87.84 315 iPd    59 32.20  -1.1
VIE     87.88 326 Pd     59 34.00   0.7
                i        59 36.00
                pP       00 16.00 167kmX
                sP       00 39.00
                PP       03 00.00
                SKS      09 47.00
                SP       11 03.00
VKA     87.89 326 iPd    59 33.80   0.4
                i        59 36.00
                PP       03 04.00
                (SKS)    09 48.00
VTS     87.99 319 Pd     59 34.00   0.0
CIN     88.06 313 P+     59 34.50   0.1
BEO     88.09 322 P      59 33.80  -0.6
                iPcP     59 43.20
                i        03 00.00
                i        06 42.00
                iS       09 47.60
                iScS     10 06.90
IZM     88.12 314 iPc    59 32.80  -2.0
SOP     88.17 326 Pd     59 34.70  -0.1
MOX     88.35 330 iPd-   59 35.50  -0.1
                PP       03 07.00
                SKS      09 50.00
                PS       11 00.00
                SS       16 05.00
                PKKP     17 22.00
                e        22 55.00
                P'P'     25 25.00
                e        39 48.00
                e        46 24.00
HOF     88.48 330 iPd    59 36.30   0.1
        1.7s   2190.00nm          6.8mb
                eS       09 51.00
KHC     88.57 328 iPd    59 36.70   0.0
        0.9s    309.00nm          6.2mb
      Z  19s      8.30um          6.2Msz
      N  19s     14.00um
      E  20s     14.20um
                e        03 10.20
                S        09 50.00
SRS     88.69 318 P      59 36.40  -1.0
WIT     88.73 334 iPd    59 38.30   1.0
                ePP      03 12.00
WET     88.88 329 iPd    59 38.00  -0.2
EDU     88.92 341 iPd    59 38.80   0.6
        1.1s   2340.00nm          7.1mb
                ePP      03 06.40
KNT     89.07 318 Pd     59 37.90  -1.3
KMR     89.08 327 iPd    59 39.60   0.5
                SS       03 12.00
                i        03 16.00
                e        45 00.00
MOA     89.16 327 iPd    59 39.40  -0.1
                i        59 42.00
                i        59 44.00
                PP       03 13.00
                (SKS)    09 55.00
VAY     89.16 318 iPd    59 39.00  -0.6
ELO     89.19 341 iPd    59 39.80   0.3
        2.0s   2560.00nm          6.8mb
                ePP      03 08.10
GRF     89.22 330 iPd    59 40.00   0.3
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      Z  20s      7.70um          6.1Msz
                  i      59 42.20
                  ePP    03 16.20
                  iSKS   09 57.00
                  eS     10 19.30
                  iPS    11 21.30
WTS     89.31 333 iPd    59 39.50  -0.5
        1.0s   854.00nm          6.7mb
                  ePP    03 12.00
                  eS     09 55.00
                  e      11 22.00
                  e      17 22.00
EBH     89.32 341 iPd    59 40.40   0.3
        2.0s  3080.00nm          6.9mb
                  ePP    03 08.00
ESY     89.34 340 iPd    59 40.60   0.4
        1.1s  1380.00nm          6.8mb
                  ePP    03 08.60
THE     89.37 318 Pd     59 38.80  -1.7
SKO     89.40 319 iPd    59 40.70   0.0
                  iPcP   59 43.00
                  iPP    00 35.50
                  iPP    03 16.00
                  iS     09 56.00
                  iScS   10 24.00
                  iPS    11 20.00
EDI     89.51 340 iPd    59 41.20   0.3
        2.0s  1920.00nm          6.7mb
                  ePP    03 10.00
                  iSKS   09 53.80
EBL     89.59 340 iPd    59 41.90   0.5
        2.0s  4040.00nm          7.0mb
                  iPP    03 11.00
EAU     89.65 341 iPd    59 42.20   0.6
        1.0s  1100.00nm          6.8mb
                  ePP    03 11.00
DBN     89.85 334 eP     59 43.00   0.4
                  ePP    00 24.00
                  eSP    00 42.00
                  ePP    03 20.00
                  ePPP   04 10.00
                  eS     10 00.00
                  eSS    16 28.00
BHG     89.91 328 iPd    59 43.10   0.1
BNS     89.96 333 iPd    59 42.80  -0.3
                  iPP    03 17.30
                  eS     09 59.50
LIT     89.99 317 Pd     59 41.60  -1.9
EKA     90.00 340 Pc     59 44.20   1.0
        1.2s   588.00nm          6.4mb
TNS     90.01 331 iPd    59 43.50   0.1
                  ePP    03 19.00
                  eSKS   10 01.50
                  ePS    11 30.50
ESK     90.03 340 iPd    59 43.50   0.1
        1.0s  1080.00nm          6.8mb
KBA     90.15 327 iPd    59 43.80  -0.5
        1.1s   400.00nm          6.3mb
                  i      59 45.40
                  i      59 48.00
                  iPP    03 21.10
                  i      03 25.00
                  i      03 26.70
ANMO    90.18  49 ePd    59 46.00   1.3
                  e      00 47.00
ALQ     90.18  49 eP     59 45.50   0.8
        0.8s    98.90nm          5.8mb
      Z  20s    53.20um          7.0Msz
                  e      00 25.00
LJU     90.31 326 ePd    59 44.00  -0.8
                  epP    00 32.50 195kmX
                  eS     09 58.00
FUR     90.32 329 iPd    59 45.20   0.3
        0.9s  2370.00nm          7.2mb
                  e      03 24.00
                  eS     10 02.50
OHR     90.32 319 iPd    59 44.00  -1.0
                  iS     09 56.20
ATH     90.59 315 iPd    59 44.00  -2.2
                  iPP    03 20.00
                  iS     10 00.00
ENN     90.61 333 iPd    59 46.00  -0.1
        1.0s   721.00nm          6.6mb
                  ePP    03 22.00
                  e      05 20.00
                  eS     09 48.00
                  e      11 36.00
                  e      17 13.00
LHC     90.68  31 eP     59 47.00   0.6
TIR     90.70 320 P      59 46.50  -0.2
STU     90.79 330 iPd-   59 46.50  -0.5
        1.1s  1060.00nm          6.8mb
      Z  20s    14.20um          6.4Msz
GAP     90.93 328 iPd    59 47.80   0.1
        1.2s  1740.00nm          7.0mb
TRI     90.93 326 eP     59 45.80  -1.8
                  e(PP)  03 24.00
                  e(S)   10 02.50
                  e      11 39.00
                  e(SS)  16 44.00
                  e      23 24.00
UCC     91.20 334 Pd-    59 48.90   0.1
                  PP     03 23.00
                  SKS    10 06.00
                  S      10 25.00
                  SP     11 36.00
                  pP     59 30.50
BUH     91.28 331 eP     59 45.40  -3.9X
GWF     91.31 331 iPd    59 48.80  -0.6
WLF     91.39 332 ePd    59 51.00   1.4
                  PP     03 32.00
                  SKS    10 08.00
                  S      10 41.00
                  SP     11 49.00
                  e      16 54.00
OGA     91.39 328 iPd    59 49.80  -0.3
STR     91.55 331 P-     59 52.00   1.6
                  ePP    03 30.00
                  iS     10 30.00
                  e      35 00.00
DOU     91.67 333 Pd-    59 50.70  -0.3
                  pP     00 34.00 172kmX
                  PP     03 29.50
                  SKS    10 08.00
                  S      10 32.00
                  SP     11 42.00
CTI     91.70 327 P-     59 50.00  -1.4
                  iPP    03 31.00
                  e      10 07.00
                  e      25 19.00
CDF     91.89 331 iPd    59 52.10  -0.1
ECH     92.09 331 P-     59 52.30  -0.7
                  epP    00 40.00 191kmX
                  iPP    03 33.00
                  iSKS   10 07.00
ZUL     92.12 330 Pd     59 52.60  -0.6
DMU     92.33 341 iPd    59 54.30   0.3
BSF     92.55 331 iPd    59 54.80  -0.4
SAL     92.56 327 P      59 54.00  -1.1
HAU     92.60 331 iPd    59 55.10  -0.3
        0.7s   424.00nm          6.7mb
DDK     92.62 341 iPd    59 55.40   0.1
        2.0s  2400.00nm          7.0mb
DKM     92.72 341 iPd    59 55.80   0.0
        2.0s  2700.00nm          7.0mb
DLE     92.77 341 iPd    59 56.10   0.1
        2.0s  2700.00nm          7.0mb
SCH     92.91  15 ePd    59 57.40   0.7
DCN     92.93 341 iPd    59 57.00   0.3
        1.7s  2540.00nm          7.1mb
ETA     93.19 340 iPc    59 58.60   0.7
        1.2s   690.00nm          6.7mb
DUI     93.45 323 P-     59 59.20  -0.1
                  iPP    03 42.00
                  e      10 19.00
PRG     93.49 325 P      00 00.00   0.5
                  eS     10 18.00
ORI     93.49 320 P      00 00.30   0.8
AQU     93.51 324 P      59 56.30  -3.4X
                  i      03 38.50
FIR     93.56 326 P+     00 00.00   0.2
                  iPP    03 22.00
                  iS     10 16.00
PRT     93.56 326 P      00 03.20   3.4X
                  ipP    00 44.00 161kmX
                  iPP    03 48.00
                  iS     10 18.50
DIX     93.63 329 Pd     00 00.20  -0.2
ECB     93.65 341 iPc    00 00.50   0.4
        1.7s  1950.00nm          7.0mb
ECP     93.69 340 iPc    00 00.80   0.6
        1.5s  1450.00nm          6.9mb
ORO     93.72 329 P      59 59.30  -1.4
                  ePP    03 49.00
                  eSKS   10 17.00
VG1     93.74 328 P-     00 04.00   3.4X
                  e      03 37.00
SGO     93.77 321 P      00 00.40  -0.4
MNS     93.86 324 P      00 00.20  -1.0
                  e      03 46.00
                  e      10 17.00
LUB     94.01  48 eP     00 04.00   1.8
                  eS     10 26.00
LOR     94.22 332 iPd    00 02.50  -0.3
RMP     94.26 324 P-     00 02.50  -0.6
                  iPP    03 44.00
                  iS     10 24.00
                  iPPS   11 32.00
LBF     94.39 332 iPd    00 03.40  -0.3
        1.2s   918.00nm          6.9mb
SSF     94.53 332 iPd    00 04.20   0.0
        1.0s   906.00nm          6.9mb
FLN     94.68 335 iPd    00 04.60  -0.3
        0.8s   335.00nm          6.6mb
SSC     94.69 335 iPd    00 04.80  -0.1
        0.7s   381.00nm          6.7mb
SWF     94.72 332 iPd    00 05.00  -0.1
AVF     94.81 332 iPd    00 05.50   0.0
VAL     94.99 342 iPd    00 06.00  -0.2
                  PP     03 54.00
                  (SKS)  10 24.00
                  PS     12 30.00
                  SS     17 16.00
RRO     95.01  44 eP     00 09.80   3.1X
        1.1s    92.00nm          6.0mb
PCO     95.01  43 eP     00 09.00   2.4
GRR     95.13 335 iPd    00 07.10   0.1
        1.0s   481.00nm          6.7mb
GZI     95.19 320 P      00 06.[illegible]  -1.4
OII     95.23 319 P      00 07.00  -0.5
WES     95.27 320 P      00 06.00  -1.8
LPF     95.49 335 iPd    00 09.00   0.4
        1.1s   734.00nm          6.9mb
OCO     95.50  44 eP     00 10.00   1.1
                  e      00 52.10
SSB     95.51 330 iPd    00 08.60  -0.2
WZF     95.58 332 iPd    00 09.20   0.1
        1.2s   900.00nm          7.0mb
CVF     95.63 326 iPd    00 08.10  -1.3
        0.7s   230.00nm          6.6mb
TCF     95.68 332 iPd    00 09.60   0.0
        1.0s   325.00nm          6.6mb
DRV     95.77 180 P      00 11.50   2.4
                  ePP    04 04.00
                  eS     11 10.00
                  iSP    12 29.00
FRF     95.92 328 iPd    00 09.60  -1.0
        0.8s   192.00nm          6.5mb
LSF     95.98 333 iPd    00 11.00   0.1
        1.0s   481.00nm          6.8mb
LRG     96.13 328 iPd    00 11.00  -0.6
        0.8s   343.00nm          6.8mb
LMR     96.16 328 iPd    00 10.80  -0.9
        1.2s   481.00nm          6.7mb
MEI     96.22 319 P      00 11.30  -0.8
CDR     96.23 329 P      00 11.30  -0.8
TUL     96.25  43 ePd    00 13.00   0.7
        1.4s   193.00nm          6.3mb
      Z  20s    10.30um          6.3Msz
      N  22s     5.25um
      E  19s     6.23um
                  e      00 51.40
                  iS     10 36.00
GIB     96.29 320 eP     00 11.30  -1.2
CHI     96.34  34 P      00 13.00   0.4
MFF     96.35 334 iPd    00 12.70   0.2
        1.3s   655.00nm          6.8mb
RKT     96.64 113 eP     00 11.00  -3.0X
RJF     96.76 332 iPd    00 14.80   0.4
        1.2s   630.00nm          6.9mb
CAF     96.84 332 iPd    00 15.20   0.4
        0.8s   225.00nm          6.6mb
ERC     97.04 321 P      00 15.00  -0.7
JCT     97.34  49 eP     00 17.50   0.2
        1.0s    45.00nm          5.8mb
      Z  20s    26.60um          6.7Msz
                  i      00 54.50
                  iS     10 41.00
LFF     97.38 332 eP     00 17.50   0.3
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TABLE 4-68

06d 02h

	0.7s	328.00nm		6.8mb			
LPO	97.40	332	iPd	00 17.60	0.3		
	0.7s	190.00nm		6.6mb			
FVM	97.82	38	eP	00 20.00	0.7		
BHO	97.85	43	eP	00 19.00	-0.5		
OTT	98.62	25	eP	00 23.00	0.2		
			PP	01 04.00			
EPF	99.11	332	iPd	00 26.40	1.2		
	0.6s	31.80nm		6.0mb			
MNT	99.28	23	eP	00 26.00	0.2		
	1.3s	83.00nm		6.0mb			
			PP	01 08.00			
CLE	99.51	31	Pd	00 30.00	3.0X		
			ePP	01 22.00	210kmX		
			iSKS	10 48.50			
CBW	99.76	19	eP	00 30.00	2.0		
RSNY	99.78	25	eP	00 27.90	-0.3		
DHN	99.83	28	eP	00 30.80	2.4		
HNME	100.50	20	ePdiff	00 33.40	2.3X		
LGR	100.74	333	iPdiff	00 33.00	0.7		
			iPP	01 31.00			
			iPP	04 35.00			
			iSKS	11 00.00			
			eS	12 14.00			
INY	100.84	27	ePdiff	00 35.00	2.3X		
EBR	100.86	330	ePdiff	00 33.00	0.2		
			e	03 39.00			
			ePP	04 41.00			
			e	10 55.00			
			e	13 25.00			
BNH	100.88	22	ePdiff	00 34.80	1.9		
MIM	101.01	21	ePdiff	00 35.80	2.4X		
AVY	101.30	255	ePdiff	00 34.00	-1.5		
BLVT	101.52	24	ePdiff	00 36.20	0.5		
LNX	102.15	25	ePdiff	00 40.40	1.9		
MIR	102.20	198	ePdiff	00 40.00	1.9		
NAI	102.46	276	ePdiff	00 43.00	2.2		
	2.0s	206.00nm		6.5mb			
STJ	102.46	9	ePdiff	00 40.50	0.8		
ORT	102.60	36	ePdiff	00 41.90	1.2		
MD1	103.13	25	ePdiff	00 44.50	1.6		
ALI	103.31	329	iPdiff	00 45.50	1.8		
			iPP	05 21.00			
TOL	103.54	333	Pdiffd	00 47.00	2.2		
			ipP	01 30.00			
			iPP	05 02.00			
			iS	12 21.00			
PTO	104.16	336	iPdiff	00 47.50	0.1		
			iS	05 08.00			
ALM	105.43	330	iPdiff	00 53.90	0.7		
	1.5s	3.60nm		5.2mb X			
	N 13s	0.40um					
	E 19s	0.40um					
			iPP	04 08.90			
			iPPP	05 13.90			
			iS	11 17.10			
CRT	105.64	331	ePdiff	00 54.00	-0.2		
			e	16 33.50			
SFS	107.35	332	iPdiff	01 05.00	3.3X		
			iPP	05 34.00			
			iSKS	11 28.00			
			iS	12 14.00			
			iPS	14 30.00			
			iSS	18 16.00			
SBA	108.17	174	ePdiff	01 14.00	9.6X		
			e	01 40.00			
			pP	01 53.00			
			sP	02 07.00			
CLK	110.78	263	ePKP	05 15.00	-1.8		
			iPP	06 00.00			
			iSKS	11 44.00			
			ePKKP	16 19.00			
MAW	112.28	204	ePdiff	01 33.00	10.2X		
			e	05 18.00			
			e	11 45.00			
TAM	112.33	315	Pdiff	01 42.00	17.7X		
MTD	114.19	264	PKP+	05 23.00	-0.4		
			iSKP	08 46.00			
			iPKKP	16 08.00			
KRI	115.92	265	ePKP	05 26.00	-0.8		
			iPP	06 18.00			
			iSKP	08 49.00			
			iPKKP	16 02.00			
CIR	115.92	260	ePKP	05 27.00	0.5		
			iPP	06 23.00			
			iSKP	08 48.00			
			ePKKP	16 02.00			
CNG	117.39	254	i(PKP)	05 14.00	-15.1X		
			e(PP)	06 17.00			
			i(SKS)	11 25.00			
JOZ	117.89	253	iPKPc	05 28.50	-1.6		
			e	06 17.50			
BUL	118.13	262	PKP+	05 31.00	0.1		
			iPP	06 54.00			
			iSKP	08 51.00			
			iSKS	12 11.00			
SPA	119.25	180	iPKPc	05 31.00	-0.6		
	1.0s	125.00nm					
EVA	120.08	255	iPKPc	05 35.00	0.5		
			e	06 19.00			
SLR	120.48	256	iPKPc	05 34.40	-0.9		
			i	12 22.00			
YND	120.96	295	PKP	05 36.10	-0.3		
KSR	121.70	256	iPKPc	05 25.20	-12.4X		
			e	05 32.00			
BLF	123.34	253	ePKP	05 39.00	-1.7		
PKR	124.80	252	e(PKP)	05 38.30	-5.2X		
SJG	126.25	32	ePKP	05 46.00	-0.5		
	1.0s	65.00nm					
	Z 20s	7.09um		6.3Msz			
SUR	128.68	250	iPKPc	05 48.00	-2.9X		
	Z 19s	13.20um		6.6Msz			
ANG	128.97	28	ePKP	05 52.30	0.7		
WIN	128.99	264	e(PKP)	05 26.00	-25.8X		
	Z 22s	27.40um		6.9Msz			
SEG	129.78	28	ePKP	05 53.00	-0.1		
NVL	129.88	200	PKP	05 55.00	3.3X		
PAG	130.05	28	ePKP	05 54.00	0.3		
CER	130.14	250	ePKP	05 35.00	-18.4X		
			e	05 59.00			
			i	09 02.50			
LGN	130.21	43	ePKP	06 00.00	6.0X		
TUH	130.24	250	ePKP	05 31.00	-22.6X		
			e	05 58.50			
MGG	130.30	28	ePKP	05 54.00	-0.1		
KDS	130.60	324	ePKP	05 42.30	-12.4X		
			i	05 55.90			
KIC	131.13	311	ePKP	05 42.00	-13.8X		
			i	05 55.40			
			i	08 09.10			
			i	09 03.00			
MBO	131.27	330	iPKP	05 59.20	3.2X		
			i	08 18.20			
			i	09 08.60			
TOV	131.36	41	ePKP	05 53.50	-2.8X		
CHN	131.38	51	ePKP	05 50.00	-6.5X		
FDF	131.43	28	ePKP	05 57.50	1.1		
			S	09 06.10			
UAV	131.50	44	ePKP	05 57.00	0.2		
CRM	131.51	28	ePKP	05 56.90	0.5		
SDV	131.59	43	ePKP	05 58.50	1.6		
BIM	131.66	28	ePKP	05 56.80	0.0		
MVM	131.70	28	ePKP	05 57.00	0.2		
FUO	132.27	49	ePKP	06 00.00	1.6		
CAR	132.36	38	iPKP	06 01.50	3.2X		
BOG	132.68	50	ePKP	05 57.50	-1.7		
			ePP	09 12.00			
PSO	132.84	57	ePKP	05 51.50	-8.1X		
SNA	134.02	197	ePKP	06 00.10	0.5		
TRN	134.96	31	ePKP	05 53.30	-9.7X		
	0.6s	19.50nm					
AIA	140.99	164	e(PKP)	06 09.00	-3.6X		
			e(S)	09 34.00			
NNA	141.31	71	ePKP	06 07.30	-7.5X		
	0.6s	115.00nm					
HUA	142.58	70	PKP-	06 14.10	-3.4X		
			iP	06 23.00			
			iP	06 55.10			
			iP	06 07.00			
PT06	142.69	73	iPKPc	06 13.80	-3.3X		
PT03	143.22	73	iPKP	06 16.50	-1.5		
AAS	144.99	165	ePKP	06 18.00	-1.6		
	0.6s	1360.00nm					
ARE	148.04	73	PKPd	06 27.00	0.6		
			eSKKS	16 36.00			
			e	20 00.00			
			esSS	29 32.00			
			e	48 08.00			
LPB	150.89	70	PKP	06 33.20	2.3		
	1.1s	1600.00nm					
	Z 21s	10.40um		6.6Msz			
			SKS	16 53.00			
TMU	151.26	118	ePKP	06 33.00	2.8X		
ANT	151.91	86	PKP	06 34.00	2.4		
			e	07 20.00			
LAV	152.34	106	ePKP	06 34.00	2.0		
OAS	152.36	84	PKP	06 39.00	6.5X		
TLL	152.95	99	PKP-	06 34.70	1.4		
ROCH	152.95	106	PKP-	06 33.00	-0.2		
PEL	153.23	106	PKP-	06 34.00	0.7		
SAN	153.25	107	PKP	06 33.50	0.2		
CHCH	153.25	108	PKP	06 32.20	-1.1		
PCH	153.37	107	PKP-	06 32.50	-1.1		
BACH	153.39	106	PKP-	06 34.50	0.9		
FCH	153.56	106	PKP-	06 35.00	0.8		
CEN	154.82	102	e(PKP)	06 25.00	-10.6X		
RFA	155.02	110	ePKPc	06 31.00	-4.7X		
VCA	155.02	96	ePKPc	06 37.50	1.5		
TCA	158.37	101	ePKPc	06 42.00	1.9		
SOB1	159.86	4	PKP	06 43.10	1.0		
			e	06 52.50			
			e	07 07.80			
			e	07 24.40			
			e	09 22.30			
			eSKP	10 01.70			
			ePKS	10 09.00			
			ePP	11 07.50			
			esPP	12 10.00			
			e	12 46.10			
			e	13 08.50			
BAA	163.18	113	PKPd	06 48.40	3.6X		
			i	08 20.40			
			PP	11 26.40			
			i	18 27.60			
			i	21 38.00			
LPA	163.55	114	PKPd	06 44.40	-0.7		
			pPKP	07 24.00			
			e	07 36.00			
			SKP	10 05.00			
			PP	11 27.00			
			pPP	12 01.00			
			SKSP	21 33.00			
BAO	164.26	31	ePKP	06 48.00	1.5		
VAO	170.81	48	PKP	06 51.50	0.7		
			i	06 57.00			
			e	07 30.60			
			e	08 07.20			
			e	08 13.70			
			e	08 44.90			
			e	09 05.90			
			ePP	12 02.70			
			ePPP	16 16.30			
			epPP	16 32.10			
			e	18 45.00			
RDJ	172.74	27	iPKPd	06 52.40	0.9		
	S.D. = 1.3	on 599 of 679 obs.					
	DEC 13, 1982 09h 12m 48.53± 0.31s						
	14.707 N ± 1.5km 44.278 E ± 1.6km						
	DEPTH = 3.2 ± 2.0 km						
	6.0mb (74 obs.) 5.9Msz (12 obs.)						
	WESTERN ARABIAN PENINSULA (555)						
	Unconfirmed reports of 2800 people killed, 1500 injured, 700,000 homeless and about 300 villages destroyed or badly damaged in Yemen. Maximum intensity VIII in the Dawran-Risabah area. Felt throughout Yemen and in the Najran area, Saudi Arabia. Landslides occurred in the epicentral area, as well as extensional ground cracks trending north-northwest in zones up to 15 km. in length. This is the first instrumentally located hypocenter in the Dhamar region of Yemen.						
OBO	2.87	200	iPn	13 35.10	-0.9		
MKL	3.17	200	iPn	13 39.20	-1.0		
TDD	3.18	205	iPn	13 39.60	-0.8		
ATA	3.39	198	ePn	13 42.50	-1.0		
ARO	3.45	204	iPn	13 43.20	-1.2		
			iS	14 35.20			
DAF	3.52	209	iPn	13 44.10	-1.2		
HLD	3.58	210	iPn	13 45.20	-0.8		
SGH	3.62	206	iPn	13 45.80	-1.0		
KSU	3.64	210	ePn	13 45.50	-1.5		
AAE	7.81	224	ePn	14 48.20	2.1		

NAI	17.52	206	ePd	16 56.00	0.3
	3.0s	6800.00nm			6.3mb
PRNI	17.75	333	eP	17 01.00	2.6
BHD	18.49	0	P	17 08.40	1.0
			iS	20 44.00	
			iPcP	22 00.00	
			i	22 56.00	
UNJ	18.86	337	P	17 22.00	9.8X
HLW	19.23	324	iPd	17 17.00	0.5
			eS	20 47.00	
MSL	21.61	358	ePc	17 41.00	-0.8
			iPP	18 01.50	
TEH	21.89	16	eP	17 49.00	4.2X
KHI	23.30	31	eP	18 01.00	2.2
TAB	23.34	4	iPd	18 01.00	1.9
NAK	24.42	2	Pd	18 13.80	4.5X
GRS	24.76	4	Pd	18 14.40	1.5
			isP	18 17.80	
			iS	22 40.20	
ERE	25.38	0	Pd	18 21.50	2.8X
ELL	25.42	332	iP	18 19.60	0.5
MHI	25.45	30	Pd	18 21.30	2.0
			eS	22 44.70	
BHJ	25.45	67	P	18 22.80	3.4X
			S	23 01.30	
KRV	25.91	4	eP	18 25.00	1.5
LEN	25.97	359	Pc	18 28.00	3.8X
BAK	26.05	10	eP	18 28.00	3.2X
SHE	26.11	8	iPc	18 28.50	3.2X
ASH	26.30	26	P	18 29.00	1.9
KAT	26.58	21	Pc	18 30.50	0.8
MTA	26.90	1	Pc	18 34.80	2.2
TIF	26.92	1	iPc	18 34.80	2.0
BKR	26.94	359	Pd	18 34.00	0.8
			iS	23 14.00	
ALT	27.28	335	iP	18 36.00	-0.2
BNG	27.31	251	iPd	18 36.00	-0.7
	1.7s	532.00nm			6.0mb
BCAO	27.33	251	iPd-	18 36.00	-0.8
			eS	23 05.00	
BOM	27.62	77	P	18 39.20	-0.2
			PcP	21 37.20	
			S	23 29.20	
IZM	27.98	331	iP	18 43.50	0.9
KAS	28.09	343	P+	18 44.10	0.5
GPA	28.26	337	iP	18 45.30	0.2
MAK	28.34	5	P	18 48.20	2.5
			iS	23 24.00	
GRO	28.57	2	Pc	18 50.00	2.3
POO	28.57	78	P	18 49.00	0.9
			PP	19 43.00	
			S	23 39.50	
			SS	25 16.00	
SOC	29.04	353	Pc	18 52.00	0.0
			iS	23 47.00	
PYA	29.25	358	Pc	18 55.00	1.1
EDC	29.30	334	iPd	18 54.10	-0.2
ISK	29.41	336	eP	18 58.00	2.7
IST	29.42	336	P	18 55.00	-0.4
ATH	29.47	326	iPc	18 57.00	1.1
			iPP	20 00.00	
			eS	24 07.00	
EZN	29.56	331	ePd	18 56.30	-0.4
CTT	29.73	335	iP	18 58.00	-0.2
KBL	29.81	44	iPc	18 59.10	-0.2
MFT	29.91	334	iP	19 00.00	0.1
NPA	30.02	190	iP	19 08.00	7.0X
			e(PP)	20 13.00	
			eS	29 26.00	
DMK	30.57	335	iP	19 05.20	-0.5
ANN	30.66	350	eP	19 05.00	-1.3
PAIG	30.93	328	P	19 09.20	0.4
OUR	31.08	329	Pd	19 09.70	-0.5
SIM	31.35	346	ePd	19 12.00	-0.5
KDZ	31.45	332	Pd	19 14.00	0.6
LIT	31.67	327	Pd	19 14.40	-1.0
DIM	31.67	333	eP	19 16.00	0.7
THE	31.82	328	Pd-	19 16.40	-0.2
			e	20 26.00	
SAM	31.86	34	Pc	19 18.00	0.9
			eS	24 18.00	
SRS	31.87	330	Pd	19 16.40	-0.7
DSH	32.12	38	Pc	19 21.00	1.6
			iS	24 40.00	
GBA	32.15	88	Pd	19 19.20	-0.7
	1.2s	125.00nm			5.7mb
KNT	32.25	329	P	19 19.80	-0.6
KUL	32.28	40	eP	19 21.00	0.2
			eS	24 31.30	
GRG	32.35	328	Pd	19 20.00	-1.3
TET	32.43	199	iP	19 21.00	-1.1
			ePP	19 28.00	
			e	24 31.00	
			i	29 10.00	
			i(S)	30 00.00	
			i	32 31.00	
VAY	32.53	329	iP	19 22.40	-0.4
TRD	32.57	97	P	19 21.40	-2.1
			PP	20 40.40	
			S	24 45.40	
PVL	32.74	334	Pd	19 24.00	-0.7
HYB	33.02	81	ePc+	19 27.00	-0.4
			ePP	20 30.00	
			e	21 04.00	
			ePcP	22 18.50	
			eS	24 40.00	
			ePcS	25 59.50	
			eSS	26 28.00	
KHO	33.16	42	eP	19 28.00	-0.6
			S	24 39.00	
VTS	33.20	331	Pd	19 28.00	-0.6
OHR	33.29	327	eP	19 16.40	-13.2X
			i	19 28.90	
			i	19 55.80	
CFR	33.30	339	Pd	19 34.00	4.5X
GAR	33.32	39	eP	19 29.00	-1.0
			eS	24 48.20	
BUC	33.41	336	P	19 30.00	-0.4
NDI	33.49	60	P-	19 32.20	0.8
			iPP	20 46.00	
			iS	24 54.00	
SKO	33.58	328	iPd	19 31.30	-0.7
			i	19 37.00	
			i	19 49.50	
			iPP	20 50.00	
			iS	25 08.50	
			iSS	27 23.00	
AVY	33.59	174	iPc	19 34.50	2.0
MTD	33.70	202	P-	19 33.00	-0.4
			ipP	19 41.00	27kmX
			eLQ	30 24.00	
ISR	33.84	337	eP	19 35.00	0.7
TIR	33.96	326	P	19 34.20	-1.1
BRD	33.98	338	eP	19 39.00	3.6X
YND	34.07	255	P-	19 36.30	-0.4
FOC	34.09	338	P	19 40.00	3.7X
TAS	34.27	34	ePc	19 39.00	1.0
			eS	25 10.20	
MLR	34.37	337	ePd	19 40.00	1.0
DRA	34.37	334	Pc	19 40.00	1.2
PPE	34.39	339	eP	19 30.00	-8.9X
VRI	34.40	338	P	19 40.00	0.9
KRI	34.52	205	P-	19 40.00	-0.5
			ipP	19 48.00	27kmX
			eLQ	30 57.00	
CMP	34.53	336	Pd	19 47.00	6.7X
CVO	34.56	337	eP	19 42.00	1.5
KIS	34.69	341	P	19 40.00	-1.5
			ipP	19 41.00	3kmX
			isP	19 44.00	
DDI	34.69	58	P	19 43.90	2.0
			S	25 22.80	
COZ	34.86	335	Pd	19 43.50	0.3
TTG	35.04	327	P	19 44.70	0.2
			S	25 26.00	
ORI	35.06	321	P	19 45.50	0.8
MSR	35.26	336	Pc	19 45.00	-1.4
CLO	35.31	333	Pd	19 47.50	0.7
GIB	35.41	317	P	19 48.50	0.6
GZR	35.57	334	Pc	19 51.50	2.3
SSR	35.61	332	Pd	19 49.00	-0.4
CEA	35.62	338	iPd	19 51.50	1.8
ANR	35.65	38	eP	19 53.00	3.2X
			eS	25 37.00	
DEV	35.91	334	P	19 51.00	-0.9
SGO	36.06	321	P	19 53.50	0.3
BEO	36.18	331	P	19 53.30	-0.9
			i	21 11.80	
CJR	36.29	336	eP	19 56.00	0.8
ERC	36.39	316	P	19 57.00	0.9
DPS	36.67	321	P	20 03.50	5.1X
BMR	37.12	337	Pc	20 03.00	0.9
DUI	37.24	322	P	20 04.50	1.4
MSC	37.25	321	P	20 04.60	1.4
TAM	37.48	288	P	20 04.00	-1.6
VIS	37.55	80	P	20 08.00	2.0
BLY	37.74	328	eP	20 08.40	1.1
VAR	37.77	68	P	20 06.80	-1.0
BUL	37.90	204	P-	20 09.00	-0.1
			ipP	20 17.00	27kmX
			iPP	21 47.00	
			iLQ	32 43.00	
FRU	38.26	37	ePc	20 14.00	2.2
			isP	20 16.20	
			iS	26 16.00	
NRN	38.26	40	eP	20 13.00	0.8
			eS	26 09.00	
AQU	38.28	322	P	20 12.00	0.0
UZH	38.37	336	eP	20 12.00	-0.5
			iS	26 16.00	
RMP	38.39	321	P+	20 14.00	1.2
			ePP	21 53.00	
			iS	26 28.00	
			iSS	29 12.00	
LVV	38.71	339	Pc	20 16.50	1.1
MNS	38.73	322	P	20 15.50	-0.2
PSZ	38.78	334	Pd	20 15.90	-0.3
BUD	38.83	333	P	20 17.00	0.5
			i	20 22.00	
			isP	20 35.00	
			e	22 04.00	
JOS	38.96	335	Pd	20 17.20	-0.3
			i	20 18.00	
			ipP	20 25.00	26kmX
			isP	20 32.00	
SRO	39.40	332	iP	20 23.60	2.4
			iPP	22 05.50	
			eS	26 30.00	
SPC	39.63	335	eP	20 23.50	0.2
			i	20 28.60	
			iPP	22 05.70	
NIE	39.78	336	iPd	20 24.50	0.1
	2.0s	514.00nm			5.8mb
CEY	39.84	327	eP	20 25.60	0.7
			i	20 31.80	
			ePP	22 03.60	
			e	23 46.50	
			eS	26 40.00	
LJU	39.98	327	eP	20 25.60	-0.5
			i	20 31.80	
			ePP	22 03.60	
			eS	26 40.00	
BOK	40.11	70	P	20 33.90	6.5X
TLG	40.15	38	ePd	20 28.00	0.5
TRI	40.17	327	P	20 27.50	-0.1
PRZ	40.33	40	eP	20 33.00	3.8X
FIR	40.39	322	P	20 12.00	-17.4X
			e	37 00.00	
KRA	40.43	336	iPd	20 29.20	-0.5
	1.6s	382.00nm			5.8mb
	Z 14s	14.90um			6.0MszX
	N 14s	8.60um			
	E 14s	9.50um			
			i	20 32.80	
			i	20 35.30	
			e	22 17.00	
			iS	26 47.00	
			i	26 49.00	
PRT	40.55	322	P	20 32.50	1.8
			i	23 08.00	
			e	26 53.00	
VIE	40.61	331	Pd	20 32.00	0.9
			i	20 36.00	
			pPP	22 18.00	
			e	27 01.00	
			e	44 08.00	
VKA	40.64	331	iPd	20 31.60	0.2
			i	20 36.00	
			pPP	22 19.00	
OBN	40.81	353	Pd	20 32.00	-0.7
			eS	26 44.00	
CVF	41.18	319	eP	20 35.90	-0.1
	1.8s	454.00nm			5.9mb
MNK	41.25	345	P	20 41.00	4.7X
			eS	27 03.00	
MOS	41.27	354	Pd	20 37.00	0.6
			isP	20 43.00	
			eS	26 56.00	
			isS	27 02.00	
KBA	41.28	328	ePd	20 36.70	-0.2
	1.5s	218.00nm			5.7mb

13d 09h

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                    i      20 42.20
                    i      20 47.10
                    ePP    22 27.30
                    i      22 45.70
MOA   41.34 329 iPd        20 37.20   0.0
                    i      20 42.00
CTI   41.53 326 P          20 39.00   0.1
WAR   41.79 339 eP         20 43.00   2.3
                    ePP    22 36.00
                    ePcS   26 28.00
                    eS     27 08.00
SAL   41.89 324 P          20 46.50   4.9X
BHG   41.95 328 iPd        20 41.60  -0.6
      1.2s   179.00nm            5.7mb
PCN   42.06 323 P          20 43.50   0.5
VG1   42.32 323 P          20 46.00   0.8
OGA   42.37 326 iPd        20 45.90   0.0
      1.7s   786.00nm            6.2mb
CAL   42.38  73 P          20 53.00   7.0X
                    ScP    26 20.00
                    S      27 21.00
KSP   42.54 334 iP         20 46.00  -0.9
      1.8s  1320.00nm            6.4mb
                    eS     27 17.00
KHC   42.54 330 iPd        20 46.20  -0.9
      1.5s   366.00nm            5.9mb
    Z  13s     2.80um            5.3MszX
    N  12s     2.00um
    E  12s     3.10um
                    e      21 10.80
                    PP     22 37.40
                    S      27 23.50
PRU   42.69 332 iPd        20 47.60  -0.6
      1.4s   140.00nm            5.5mb
    Z  17s    10.10um            5.8MszX
    N  16s     5.20um
    E  18s     7.50um
                    e      21 15.50
                    PP     22 44.00
                    eS     27 21.00
PRA   42.80 332 iPd        20 48.00  -1.1
                    e      20 54.00
                    e      30 44.00
WET   42.89 330 iPd        20 48.70  -1.2
      1.8s   636.00nm            6.0mb
                    eS     27 32.00
ARU   43.03  12 Pd         20 51.20   0.3
                    isP    20 54.20
                    ipP    20 56.40  17kmX
                    eS     27 22.70
FUR   43.06 328 iPd        20 50.50  -0.8
      1.2s   340.00nm            6.0mb
LMR   43.06 319 eP         20 50.80  -0.5
      1.8s   298.00nm            5.7mb
FRF   43.09 319 eP         20 51.20  -0.3
      1.8s   479.00nm            5.9mb
SLR   43.11 201 iPd-       20 52.50   0.4
      1.5s   417.00nm            6.0mb
    Z  17s    59.90um            6.6MszX
    N  19s    25.60um
    E  19s    60.80um
                    iPcP   22 41.20
                    eS     27 24.00
TMA   43.12 324 Pc         20 51.40  -0.6
PRE   43.16 201 iPd        20 54.50   2.0
LRG   43.21 319 eP         20 52.30  -0.3
      1.8s   454.00nm            5.9mb
ORO   43.36 323 P          20 52.50  -1.4
EVA   43.55 200 iPd        20 56.80   1.1
      1.0s   208.00nm            5.9mb
BRG   43.59 332 iPd        20 54.80  -0.7
                    i      21 21.00
                    e      21 45.00
                    PP     22 45.00
BPI   43.60 201 iPc        20 57.50   1.4
MMK   43.61 323 Pc         20 55.00  -1.1
CDR   43.70 319 Pc         20 55.50  -1.0
KSR   43.73 203 iPd        20 55.70  -1.5
      1.0s   148.00nm            5.7mb
SVE   43.83  13 Pd         20 57.50   0.1
                    eS     27 33.00
DIX   43.95 323 Pc         20 58.30  -0.5
GRF   44.07 329 iPd        20 58.30  -1.1
      1.7s   261.00nm            5.8mb
    Z  18s     4.50um            5.4Msz
                    e      21 03.90
HOF   44.16 330 eP         20 58.90  -1.3
      2.0s   952.00nm            6.3mb
EMS   44.22 323 Pc         21 00.00  -0.9
SLE   44.29 326 Pc         21 00.00  -1.3
CLL   44.32 332 iPd        21 00.00  -1.4
                    i      21 06.00
                    PP     22 50.00
                    S      27 47.00
MOX   44.51 331 iPd        21 02.00  -1.0
      2.0s   853.00nm            6.3mb
    Z  19s    10.80um            5.8Msz
    N  18s     2.80um
    E  19s     5.60um
                    ePP    22 50.00
                    iS     27 55.00
                    eSS    31 00.00
STU   44.52 327 iPc        21 02.50  -0.6
      1.0s   100.00nm            5.7mb
    Z  20s    10.60um            5.8Msz
BBS   44.66 325 Pd         21 03.40  -0.9
NEC   44.72 324 Pd         21 04.00  -0.8
BUH   44.97 327 ePd        21 06.00  -0.8
BRL   45.01 334 eP         21 07.00   0.1
BRN   45.01 333 eP         21 07.00   0.1
BAF   45.16 325 iPd        21 07.20  -1.2
STR   45.17 326 P          21 10.00   1.7
                    ePP    22 52.00
                    iSKS   28 00.00
BSF   45.27 325 eP         21 08.20  -1.1
ECH   45.28 325 P-         21 08.10  -1.2
                    ePP    22 52.00
CDF   45.33 326 eP         21 08.60  -1.1
      1.8s   350.00nm            6.0mb
GWF   45.47 327 iPd        21 09.80  -1.0
SWZ   45.52 204 iPc        21 11.50   0.0
LSA   45.58  63 P          21 12.80   0.4
                    PP     23 11.30
                    S      27 53.30
                    SS     31 21.30
HAU   45.61 325 eP         21 10.80  -1.1
      1.8s   285.00nm            6.0mb
WIN   45.62 216 ePd        21 14.00   1.6
      1.1s    80.00nm            5.6mb
VIR   45.76 202 eP         21 14.00   0.7
SHL   45.77  69 P+         21 13.00  -0.6
                    PP     23 06.00
                    PPP    23 50.00
                    S      28 00.00
                    SS     30 20.00
                    SSS    31 31.00
TNS   45.79 328 eP         21 11.60  -1.7
SEM   45.98  32 ePd        21 14.00  -0.6
                    eS     28 04.60
EBR   46.02 313 eP         21 16.00   0.9
                    eS     28 24.00
PUL   46.15 350 Pd         21 15.00  -0.8
                    isP    21 18.00
                    eS     28 00.00
                    esS    28 05.00
BGG   46.35 328 eP         21 13.70  -3.9X
      2.2s     0.82nm            3.4mb X
SMF   46.35 322 eP         21 16.20  -1.5
      1.8s   210.00nm            5.9mb
PYM   46.42 320 Pc         21 18.20  -0.1
MLS   46.43 316 iP         21 17.80  -0.6
LBF   46.44 322 eP         21 17.40  -1.0
CAF   46.63 319 eP         21 19.70  -0.3
LOR   46.65 323 eP         21 19.00  -1.1
AVF   46.71 322 eP         21 19.20  -1.3
      1.8s   253.00nm            6.0mb
SSF   46.76 322 eP         21 19.60  -1.3
BNS   46.88 328 iPc        21 21.70  -0.1
      2.0s     0.49nm            3.3mb X
                    i      21 26.00
                    iPP    23 18.00
MZF   46.90 321 eP         21 21.50  -0.6
BLF   46.93 202 eP         21 30.00   7.4X
WMO   46.94  43 P          21 21.50  -0.9
                    PP     23 21.00
                    ScP    26 39.50
                    S      28 16.00
ALM   46.95 307 iPc        21 28.20   5.6X
      1.1s     8.40nm            4.8mb X
                    iPP    23 15.50
                    iPPP   24 06.00
                    iS     28 37.60
LPO   47.09 318 eP         21 23.10  -0.4
      1.8s   396.00nm            6.2mb
KIM   47.14 204 iPd        21 26.00   1.8
      1.0s   100.00nm            5.9mb
KLL   47.14 328 eP         21 23.40  -0.4
RJF   47.15 319 eP         21 23.40  -0.6
      1.8s   240.00nm            6.0mb
TCF   47.16 321 eP         21 23.20  -1.0
      1.8s   184.00nm            5.9mb
ENN   47.41 328 iPd        21 26.00   0.0
      1.3s    88.00nm            5.7mb
                    e      21 30.00
                    e      22 18.50
LFF   47.49 318 eP         21 26.30  -0.4
      1.8s   468.00nm            6.3mb
LSF   47.57 320 eP         21 26.30  -1.0
COP   47.67 336 eP         21 30.00   2.1
WTS   47.69 329 iPd        21 28.00  -0.1
      1.3s    84.00nm            5.7mb
                    i      21 32.10
DOU   47.73 326 Pd         21 27.80  -0.7
                    i      21 28.90
NUR   47.92 347 iP         21 29.20  -0.6
      1.2s   162.00nm            6.0mb
    Z  16s    21.10um            6.2MszX
                    ePP    23 28.00
                    eS     28 30.00
                    e      29 20.00
                    eSS    32 12.00
CRT   47.92 307 eP         21 36.20   5.9X
UCC   48.25 327 Pd         21 31.80  -0.7
                    e      21 36.00
WIT   48.26 330 ePd        21 32.50   0.0
                    e      21 37.00
IFR   48.34 302 iP         21 31.50  -2.3
                    i      21 34.50
                    i      21 38.50
MAL   48.44 306 iPc        21 38.30   4.1X
      0.9s     2.50nm            4.3mb X
HVD   48.54 202 iPd        21 38.70   3.5X
      1.4s    58.00nm            5.5mb
                    i      22 18.40
DBN   48.57 329 iPd        21 39.00   4.1X
      7.0s    23.60nm            4.4mb X
    Z  16s     4.80um            5.6MszX
                    iS     29 00.00
UKR   48.62  33 P          21 35.10  -0.3
                    eS     28 41.10
LGR   48.70 314 iPd        21 36.50   0.3
                    ePP    23 33.50
                    eS     28 40.50
MFF   48.76 320 eP         21 35.60  -1.0
      1.6s   260.00nm            6.0mb
KIC   48.81 266 iPd        21 37.00  -0.4
                    e      38 41.30
TOL   48.99 310 Pc         21 38.50   0.0
                    i      21 44.00
                    ePP    23 30.00
                    iS     29 05.00
KOI   49.11  67 eP         21 40.00   0.4
UPP   49.14 343 P          21 36.00  -3.2X
                    ipP    21 37.60   5kmX
                    iS     28 47.00
                    iSS    32 30.00
MUD   49.51 335 iPd        21 41.90  -0.3
      1.1s   309.00nm            6.2mb
LDF   49.64 322 eP         21 41.60  -1.7
      1.6s   207.00nm            5.9mb
SUF   49.64 349 P          21 42.40  -0.6
SFS   49.79 305 eP         21 48.00   3.4X
                    ePP    23 16.00
                    eS     29 10.00
FLN   49.92 322 eP         21 43.70  -1.8
LPF   49.93 321 eP         21 43.90  -1.6
      1.6s   389.00nm            6.1mb
GRR   49.98 322 eP         21 44.20  -1.7
      1.6s   394.00nm            6.1mb
NVS   50.20  28 Pd         21 45.80  -1.6
                    iS     29 01.00
HFS   50.55 341 P          21 58.30   8.2X
      0.9s   127.00nm            5.9mb
                    e      39 00.00
ELT   50.67  31 Pd         21 49.20  -1.8
                    iS     29 08.00
KJF   50.75 351 iP         21 50.00  -1.5
      1.2s   226.00nm            6.0mb
    Z  12s     9.90um            6.0MszX
                    ePP    23 48.00
                    eS     29 08.00
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                eScS  31 52.00
APO   50.80 341 P     22 00.39   8.4X
SLL   50.94 341 P     22 01.14   8.1X
BSI   50.97  95 ePd   21 55.20   1.3
KON   51.58 338 eP    21 56.00  -1.9
                e     47 00.00
UME   51.82 347 P     21 57.80  -1.8
                i     22 01.80
                iS    29 24.00
NAO   52.01 340 P     22 15.00  13.8X
      1.5s   878.00nm
CHG   52.34  77 iPc   22 03.00  -1.3
      1.1s    28.50nm          5.1mb
                eS    29 44.00
CHTO  52.34  77 ePc+  22 02.50  -1.8
      1.1s    29.40nm          5.1mb
                iSP   22 09.50
BDT   52.53  79 eP    22 04.00  -1.7
APA   53.29 355 Pd    22 10.40  -0.2
                isP   22 12.80
                eS    29 48.00
CER   53.42 206 iPc   22 13.50   1.5
TUH   53.42 206 eP    22 12.50   0.5
BER   53.65 337 eP    22 11.90  -1.4
SOD   53.88 352 P     22 13.80  -1.1
UER   54.06  36 Pc    22 15.10  -1.3
                iS    29 55.30
GTA   54.29  52 Pd    22 17.50  -1.0
                S     29 50.50
                SS    33 28.50
EKA   54.48 329 Pd    22 17.60  -1.9
      1.4s   106.00nm          5.7mb
ESK   54.49 329 (P)   22 18.00  -1.6
TSI   54.61  96 e(P)  22 23.00   1.9
ECP   54.79 324 iPc   22 23.40   1.6
      1.5s   485.00nm          6.2mb
ETA   54.91 325 eP    22 13.30  -9.4X
      1.9s   470.00nm          6.2mb
ECB   55.10 324 iPc   22 21.90  -2.2
      1.3s   250 00nm          6.1mb
PCT   55.13  82 iP    22 20.70  -4.1X
      1.2s   115.00nm          5.8mb
PSI   55.17  97 ePd   22 23.30  -1.9
      1.5s   169.00nm          5.9mb
DDK   55.27 326 eP    22 23.90  -1.4
      2.0s   720.00nm          6.4mb
KIR   55.31 349 P     22 23.20  -2.3
                i     22 27.40
DLE   55.34 326 eP    22 25.00  -0.8
      1.8s   910.00nm          6.5mb
KMI   55.57  69 Pc    22 27.00  -1.3
    E  17s     6.40um
                SP    23 15.00
                PP    24 33.00
                S     30 10.00
                SS    34 10.00
DCN   55.76 325 iPc   22 28.10  -0.8
      1.8s   910.00nm          6.5mb
DMU   55.79 326 iPc   22 27.70  -1.4
      1.7s   350.00nm          6.1mb
KEV   56.07 353 iP    22 30.50  -0.4
      1.1s   154.00nm          5.9mb
    Z  12s    10.20um          6.1MszX
                i     22 37.80
                ePPP  26 08.00
                eS    30 24.00
                eScS  32 24.00
CD2   56.54  63 P     22 33.00  -2.0
                PP    26 04.00
LZH   56.98  56 iPd-  22 37.00  -1.2
      5.5s  3510.00nm          6.6mb X
    N  17s     6.30um
    E  14s     9.80um
                PP    22 44.00
                S     30 30.00
                SS    30 40.00
                eSS   34 26.00
PPI   57.49 100 eP    22 41.60  -0.2
MOY   58.12  38 ePd   22 44.00  -1.6
BGV   58.97  74 P     22 51.00  -1.1
GYA   59.08  68 P     22 51.00  -1.9
                PP    25 11.00
                PPP   26 33.00
                S     30 54.00
ZAK   59.15  40 eP    22 51.00  -1.8
                eS    31 03.30
IRK   60.26  38 eP    22 59.00  -1.5
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                epP   23 00.00   3kmX
                eS    31 13.00
XAN   61.01  59 Pd    23 04.00  -2.0
                PP    25 30.00
                S     31 22.00
                SS    35 16.50
NRI   61.12  16 Pd    23 05.20  -0.8
                isP   23 09.00
BTO   62.21  52 P     23 13.10  -1.0
                PP    25 31.00
HHC   63.40  52 P     23 21.40  -0.5
TIY   63.95  55 P     23 24.60  -1.0
GZH   65.37  71 Pc    23 36.50   1.6
                PP    26 07.00
AKU   65.46 336 iP    23 34.60  -0.1
      1.8s   436.00nm          6.4mb
WHN   65.66  63 P     23 35.00  -1.7
KBS   66.07 353 iP    23 37.80  -0.7
HKC   66.22  72 iP    23 44.00   3.7X
                iS    31 34.00
KHE   66.23   2 Pd    23 39.50   0.0
                ipP   23 40.00   2kmX
                iS    32 34.00
REY   66.54 334 iP    23 42.10   0.4
BJI   66.89  53 P     23 43.00  -1.3
                eS    32 41.00
BOD   66.99  33 eP    23 42.00  -2.6
TIA   67.72  57 P     23 48.50  -1.1
                PP    26 20.00
                S     32 48.60
                SS    37 17.00
SCO   68.37 341 iP    23 52.20  -0.9
      0.9s    78.00nm          5.9mb
NJ2   69.40  61 P     23 59.00  -1.2
                PP    26 40.00
                iS    33 12.00
                SS    37 33.00
DAG   69.73 347 iPd   23 59.80  -1.6
      0.9s    42.00nm          5.6mb
                iS    33 17.00
TUP   69.81  37 ePd   24 01.00  -1.2
QZH   69.92  69 Pd    24 03.50   0.1
                PP    26 40.00
                eS    33 12.00
                SS    37 32.00
TRT   71.33 103 iPc   24 13.00   0.9
      0.7s    58.70nm          5.8mb
SSE   71.48  62 Pc    24 12.00  -0.8
                PP    26 49.00
                eS    33 28.00
                SS    38 04.00
ANP   72.52  68 Pc    24 26.00   6.8X
                S     33 56.00
TATO  72.52  68 ePc   24 23.00   3.9X
      2.0s  1490.00nm          6.8mb
PPR   72.65  84 eP    24 20.00   0.0
SZP   72.77  76 ePc   24 29.20   8.6X
BAG   73.10  77 P     24 22.00  -0.8
                eS    33 56.00
CN2   73.65  48 Pd    24 24.00  -1.4
                PP    27 09.00
PGP   74.01  80 ePc   24 29.90   2.0
      1.0s    69.00nm          5.6mb
TIK   74.44  19 ePd   24 27.00  -2.5
                esP   24 30.00
                eS    34 04.00
YAK   75.00  29 Pd    24 31.60  -1.2
                eS    34 09.10
MDJ   76.52  47 Pc    24 41.40  -0.4
                PP    27 32.00
                S     34 24.00
                PS    35 04.00
                SS    39 18.00
LGP   76.73  80 eP    24 45.80   2.3
MKS   77.08  99 e(P)  24 44.00  -1.5
ALE   77.67 353 eP    24 47.00  -0.6
      1.7s   548.00nm          6.4mb
PLP   78.35  81 eP    24 49.00  -3.4X
VLA   78.39  48 Pc    24 55.00   2.9X
                eS    34 55.00
CGP   78.68  84 eP    24 52.30  -2.0
GDH   79.12 339 eP    24 56.00   0.4
      1.2s    96.90nm          5.7mb
                i     35 05.00
DAV   79.85  85 P     25 04.00   3.4X
                eS    35 10.00
PPH   80.26  84 eP    25 02.00  -0.8
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SHK   80.52  57 ePc   25 03.90   0.0
      1.4s   930.00nm          6.6mb
    Z  20s     5.50um          5.9Msz
                ePP   25 07.70
                eSP   25 11.00
                eS    35 13.00
MBL   82.25 114 eP    25 12.00  -1.1
KUPT  82.40 103 eP    25 18.40   4.5X
BAL   82.87 124 eP    25 16.00  -0.2
MEK   82.96 120 eP    25 16.00  -0.8
MUN   82.99 126 eP    25 17.00   0.3
MAW   83.20 173 eP    25 18.00   1.0
STJ   83.94 317 eP    25 22.00   0.7
KLB   84.07 125 eP    25 21.00  -1.3
NWAO  84.14 126 eP    25 22.00  -0.6
MAT   84.48  54 eP    25 24.00  -0.3
      1.5s   286.00nm          6.3mb
    Z  20s     6.03um          6.0Msz
                eS    35 54.00
NIIJ  84.93  53 P     25 27.00   0.5
YSS   85.02  43 ePc   25 27.00   0.3
                eS    36 00.00
SEY   85.04  26 Pd    25 27.00   0.4
                isP   25 30.00
                eS    35 55.00
AAI   85.05  95 eP    25 27.00  -0.5
      1.4s   328.00nm          6.4mb
CHJJ  85.22  54 P     25 27.00  -1.0
MGD   85.39  29 ePd   25 27.00  -1.3
                iS    36 08.00
DDR   85.39  54 eP    25 29.50   0.5
SRY   85.55  55 eP    25 32.40   2.7
OYM   85.58  55 eP    25 33.70   3.8X
TSK   86.05  54 eP    25 31.10  -1.1
KAKJ  86.10  54 P     25 29.00  -3.4X
KYS   86.35  55 eP    25 37.60   4.0X
FRB   86.62 336 eP    25 33.00  -1.3
SOB1  87.69 260 P     25 43.40   2.9X
NVL   88.13 190 P     25 44.00   2.6
MIR   88.61 162 eP    25 46.00   2.3
                eS    36 20.00
MBC   88.70 356 iPd   25 44.10  -0.1
      1.6s   376.00nm          6.4mb
KNA   88.77 107 Pc    25 45.20  -0.3
KUR   88.98  43 Pd    25 50.00   3.9X
WBN   89.66 117 eP    25 49.00  -0.6
SCH   89.75 327 ePd   25 49.20  -0.4
SNA   90.69 194 e(P)  25 56.00   2.6
SKR   91.97  36 eP    25 57.00  -2.8
                eS    37 00.00
ILT   91.97  15 eP    26 00.00   0.5
                eS    37 07.00
PET   92.31  33 eP    26 04.00   2.7
                eS    37 08.00
RDJ   93.36 247 P     26 09.00   2.3
                i     26 16.00
                iPP   29 52.40
                iS    37 36.80
                isS   37 44.80
                iPS   38 44.40
                iSS   43 49.60
                eSSS  46 42.40
                eLO   50 40.00
                eLR   53 35.20
CBM   93.96 321 e(P)  26 10.00   0.9
                e     26 14.00
WRA   94.96 109 Pd    26 13.60  -0.5
      1.2s    57.70nm          5.9mb
WB2   94.98 109 Pd    26 13.70  -0.5
                iS    29 50.00
ASPA  95.44 113 eP    26 16.00  -0.3
BAO   96.00 255 e(P)  26 20.00   0.9
GUMO  96.55  74 e(P)  26 26.00   4.6X
                e(S)  37 02.50
INK   97.21 359 eP    26 23.00  -0.5
ANM   97.79  12 P     26 27.00   0.7
COL  100.11   5 e(Pdif26 40.00   3.4X
      2.2s    76.90nm          5.9mb
    Z  20s     3.90um          5.9Msz
FBA  100.11   5 Pdiff 26 39.50   2.9X
TTA  101.01   9 Pdiff 26 42.00   1.3
YKC  101.28 350 ePdiff26 42.00   0.2
YKA  101.29 350 Pdiff 26 47.00   5.2X
RSNT 101.30 350 ePdiff26 42.30   0.4
                ePP   30 47.50
PMR  103.21   7 Pdiff 26 50.00  -0.4
PMG  104.70  96 ePdiff27 00.00   1.8
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13d 09h

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CTA   105.95 107 iPdiff27 07.40   3.7X
       1.2s    21.10nm          6.0mb
                  e     31 27.00
                  i     37 49.00
                  i     40 43.00
                  i     46 47.00
CTAO  105.95 107 ePdiff27 07.80   4.1X
       1.1s    23.60nm          6.1mb
                ePP     31 32.00
SES   111.65 343 ePKP  31 06.00 -20.3X
RSSD  114.71 335 (PKP) 31 31.50  -1.1
                  e     42 10.80
LPB   115.13 258 ePKP  31 35.00   0.6
     Z  20s     6.38um          6.2Msz
                SKS     42 15.00
NEW   115.16 346 ePKP  31 33.00  -0.1
BOG   115.96 283 ePKP  32 38.50  62.5X
LRM   116.19 342 ePKP  30 35.40 -60.0X
RLO   116.45 324 ePKP  31 35.20  -0.7
TUL   117.07 324 ePKP  31 36.30  -0.7
       1.2s    44.20nm
     Z  20s     1.86um          5.7Msz
                  e     31 44.70
                  e     32 43.00
                  e     33 14.50
BDW   117.96 338 ePKPc 31 38.00  -0.8
                  e     32 44.00
                  e     41 59.00
ARE   118.34 259 ePKP  31 43.00   2.7X
                ePP     33 00.00
                ePS     42 44.00
                eLR     05 50.00
                eLR     16 36.00
GOL   118.93 334 (PKP) 31 39.80  -1.0
     Z  19s     2.12um          5.8Msz
PSO   120.12 280 ePKP  31 44.50   0.5
HUA   121.32 265 PKP   31 46.50   0.3
BMN   122.51 343 (PKP) 31 47.30  -0.1
KOU   122.79 105 PKP+  31 48.00  -0.3
EUR   123.03 342 iPKP  31 47.00  -1.6
       1.0s     3.46nm
JCT   123.31 323 ePKP  31 48.00  -1.1
       1.0s    42.50nm
     Z  18s     3.44um          6.1Msz
                  e     32 08.00
                  e     33 24.00
ALO   123.34 331 ePKP  31 47.00  -2.3
     Z  20s     3.90um          6.1Msz
WDC   123.65 348 iPKPc 31 49.00  -0.5
ORV   124.41 347 iPKPc 31 50.60  -0.4
MNV   124.64 343 iPKP  31 48.10  -3.5X
NOU   124.91 107 PKP+  31 49.00  -3.4X
LPS   125.67 300 ePKP  31 54.20   0.0
JAS   125.70 345 iPKPc 31 53.80   0.2
BKS   126.18 347 ePKP  31 55.00   0.5
                  e     32 03.00
                  e     56 20.00
                  e     10 20.00
PVC   126.34 101 PKP+  31 54.50  -0.8
FRI   126.41 344 iPKP  31 55.20   0.3
ARN   126.53 346 ePKP  31 55.80   0.6
MHC   126.56 346 iPKPc 31 56.20   0.8
SLD   126.72 346 ePKP  31 56.00   0.4
PRI   127.46 345 ePKPc 31 58.40   1.3
GLA   128.48 338 ePKP  31 59.30   0.2
PAS   128.62 341 ePKP  32 01.00   1.7
     Z  20s     4.00um          6.1Msz
                ePP     35 24.00
                eSKKS   42 30.00
                ePS     45 44.00
                ePPS    46 56.00
                eSSS    57 14.00
VUN   136.00 101 ePKP  32 16.10   2.4
AFI   145.08  93 ePKP  32 30.00  -0.1
                SSP     55 24.00
NUE   147.02 102 PKP   32 32.00  -1.0
     S.D. = 1.2  on 372 of 435 obs.

   FEB  13, 1983  01h 40m 11.90± 0.35s
   39.994 N ± 2.2km   75.210 E ± 1.5km
   DEPTH =  20.1 ±  2.6 km
   5.7mb (110 obs.)  6.3Msz ( 18 obs.)
SOUTHERN XINJIANG, CHINA          (321)
      Several people injured and
      moderate damage in the Wuqia
      area. Felt (IV) in the Andizhan-
      Naryn area, USSR. Felt also
      (III) at Frunze and (II) at
      Tashkent, USSR.

KSH     0.80 132 iPgd  40 27.00  -0.1
NRN     1.56  22 iPgc  40 36.40  -2.6
       0.8s  *******nm
                eSg   40 56.70
MUR     1.90 212 ePn   40 46.90   2.8X
ANR     2.31 290 iPnc  40 51.30   1.8
                iSg   41 24.30
SFK     2.41 328 iPg   40 35.40 -15.5X
                iSg   40 52.00
FRG     2.65 280 iPn   40 55.60   1.1
                iSg   41 37.10
FRU     2.87 351 iPnd  41 00.00   2.5
                iS*   41 38.00
NAM     2.88 291 ePn   40 58.40   0.9
                eS*   41 41.80
PRZ     3.46  43 iPnd  41 08.20   2.2
       1.2s  1600.00nm
                eSn   41 49.20
AAA     3.52  21 ePn   41 09.40   2.6X
       2.0s   104.00nm
                iP*   41 11.30
                iPg   41 17.80
TLG     3.65  26 iPnc  41 09.20   0.5
                iP*   41 17.80
KHO     3.81 230 iPnc  41 15.40   4.3X
                eS*   42 06.40
GAR     3.91 257 iPnc  41 13.60   1.2
                eSg   42 20.60
CHL     4.30  33 iPn   41 18.50   0.7
                iP*   41 27.90
                eS*   42 19.50
KUU     4.40  15 ePn   41 15.60  -3.6X
                eSg   42 21.80
OBG     4.45 255 ePn   41 21.00   1.0
                eP*   41 31.60
                iSg   42 36.30
TAS     4.69 288 iPnc  41 22.30  -1.1
       1.0s  *******nm
     E  14s  2560.00um
                eP*   41 36.30
                eSn   42 22.30
KUL     4.74 246 ePnc  41 24.50   0.4
       0.5s  3200.00nm
                iP*   41 39.80
                iSg   42 49.90
URT     4.76 271 iPn   41 24.80   0.5
                eSg   42 47.30
CHM     4.82 300 iPn   41 24.80  -0.4
CGT     4.88 256 iPn   41 26.10   0.2
LNA     5.01 251 ePn   41 25.50  -2.2
KRU     5.06 255 iPn   41 28.40  -0.1
DSH     5.20 256 iPnc  41 30.50   0.0
                eSn   42 38.00
DZE     5.36 258 ePn   41 29.10  -3.7X
DZI     5.69 273 iPn   41 36.30  -1.1
                eSn   42 45.70
SAM     6.34 270 iPnc  41 45.60  -1.0
       2.8s  *******nm          7.3mb X
                iP*   42 09.50
                iSg   43 44.80
AGL     6.39 272 iPn   41 46.90  -0.3
NUT     7.31 277 iP    41 57.60  -2.5
WMO    10.06  64 iPc   42 36.80  -1.6
                sP    42 49.00
                S     44 34.00
SEM    11.00  17 ePd   42 48.80  -2.3
       3.4s  1890.00nm          6.8mb X
                eS    44 55.10
NDI    11.40 171 iPd   42 54.00  -2.7X
       0.5s   141.00nm          6.5mb
QUE    11.89 217 eP    43 00.60  -2.8X
                eS    45 05.20
ASH    13.28 267 P     43 18.00  -3.8X
       2.0s  *******nm          8.0mb X
                iS    45 47.00
VAN    13.47 267 eP    43 18.80  -5.6X
       1.4s   730.00nm          6.4mb
     E  28s   228.00um
                eS    45 50.30
KHI    14.45 251 eP+   43 32.30  -5.1X
KAT    14.63 273 iPc   43 34.50  -5.1X
KKN    14.75 143 iPc   43 35.70  -5.7X
DMN    14.83 143 iPc   43 37.20  -5.2X
PKI    15.00 143 iPc   43 39.40  -5.4X
ELT    15.25  26 iPc   43 45.60  -1.9
       2.5s  1760.00nm          5.9mb
NVS    15.87  17 iPd   43 51.70  -3.8X
       1.3s   800.00nm          5.7mb
LSA    16.61 123 Pd    44 06.30   0.7
                Pn    44 21.10
                S     47 11.10
UER    17.47  42 iPc   44 16.50   0.8
       1.6s  1010.00nm          5.7mb
GTA    18.93  84 iPc   44 33.50  -0.6
                iS    48 10.50
TEH    19.27 265 ePc   44 40.00   1.8
BAK    19.33 279 iPd   44 42.00   3.3X
       6.0s  8100.00nm          6.2mb X
     N  10s    92.40um
     E  10s    81.80um
SVE    19.34 335 iPd   44 38.20  -0.5
       2.7s  2900.00nm          6.1mb
                iS    48 13.00
ARU    19.71 332 eP    44 42.30  -0.5
       3.0s  7500.00nm          6.5mb
                iS    48 22.00
IR7    19.87 265 eP    44 44.00  -0.9
SHL    20.04 131 iP    44 43.00  -3.7X
                iS    48 20.80
LNK    20.41 275 iPc   44 50.00  -0.3
       2.0s    18.00nm          4.1mb X
MAK    20.98 287 iPc   44 46.00 -10.1X
       6.0s  *******nm
     N  22s    49.10um
     E  22s    24.30um
                iPP   45 20.00
                ePPP  45 30.00
                iS    48 49.00
                iSS   49 15.00
                eSSS  49 29.00
MOY    21.30  48 eP    44 59.20  -0.1
                i     45 02.50
                ePcP  49 03.60
POO    21.42 184 iPd   44 59.00  -1.8
                iS    48 48.00
KRV    21.99 281 eP    45 02.00  -4.3X
                eS    49 07.00
GRS    22.17 278 iPc   45 07.20  -1.2
       2.0s  2500.00nm          6.3mb
                iPP   45 28.40
                ePPP  45 49.60
                iS    49 12.60
ZAK    22.22  53 iPd   45 08.90   0.4
       1.7s  1140.00nm          6.0mb
     Z  14s    72.00um          6.2MszX
     N  15s    49.90um
     E  13s    58.10um
                iS    49 17.00
GRO    22.26 288 iPc   45 08.00  -0.9
       2.0s  4200.00nm          6.5mb
     Z  18s   170.00um          6.5Msz
     N  18s   280.00um
     E  18s   300.00um
                iS    49 13.00
TAB    22.48 274 iPc+  45 13.00   1.6
HYB    22.68 172 ePd   45 11.00  -2.4
       1.0s   430.00nm          5.9mb
                eS    49 14.00
LZH    22.84  91 Pc+   45 16.50   1.5
       7.0s  3600.00nm          6.0mb X
     E  13s    95.30um
                sP    45 28.00
                S     49 19.00
NAK    22.94 278 iPd   45 15.50   0.8
                eS    49 28.50
MTA    23.01 284 iPc   45 16.60   0.2
                iS    49 29.40
STE    23.41 283 iPc   45 20.60   0.2
       1.0s     2.40nm          3.7mb X
                iS    49 33.00
                isS   49 38.00
IRK    23.43  49 eP    45 22.00   1.6
       2.6s   970.00nm          5.9mb
     Z  18s    69.70um          6.2Msz
     N  10s    50.40um
     E  10s    26.50um
                ePP   45 50.00
                eS    49 26.00
                eS    49 36.00
ERE    23.44 280 iP    45 21.00   0.3
     N  12s    25.00um
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13d 01h

	E 12s 19.00um				
		esP	45 23.00		
		iPP	45 55.00		
		iS	49 33.00		
		iSSS	50 29.00		
LEN	23.84 282	iPc	45 27.00	2.3	
	3.0s 1300.00nm			6.0mb	
BKR	23.97 285	iPc	45 26.60	0.8	
	1.4s 100.00nm			5.2mb	
	Z 16s 95.00um			6.4MszX	
	N 12s 37.00um				
	E 16s 24.90um				
		iPP	46 00.50		
		iS	49 47.60		
PYA	24.14 290	iPc	45 28.00	0.6	
	1.0s 150.00nm			5.5mb	
	E 12s 35.70um				
		iPP	45 59.00		
		ePPP	46 18.00		
		iS	49 45.00		
ABS	24.47 285	eP	45 31.00	0.5	
	2.5s 2000.00nm			6.3mb	
		isP	45 36.00		
		iS	49 50.00		
CD2	24.87 102	eP	45 35.80	1.2	
		eS	50 02.00		
ZUG	25.09 287	iP	45 40.50	4.0X	
MSL	25.38 272	ePd	45 39.00	-0.3	
		iPP	46 22.50		
		iPPP	46 39.50		
		eS	50 07.50		
		iSS	51 13.50		
		iSSS	51 38.50		
		eLQ	54 26.00		
		e	55 58.00		
		i	58 14.50		
BHD	25.55 265	ePd	45 45.20	4.4X	
		e	50 15.00		
GBA	26.36 175	P	45 47.00	-1.5	
BTO	26.46 77	eP	45 50.80	1.4	
SOC	26.58 289	iPc	45 52.00	1.7	
	2.5s 400.00nm			5.6mb	
	N 20s 74.00um				
	E 15s 39.00um				
		iS	50 27.00		
KMI	27.40 114	Pd-	45 59.00	0.8	
	N 10s 26.10um				
		PP	47 40.00		
		S	50 37.00		
XAN	27.46 92	P	45 57.80	-0.7	
HHC	27.57 76	eP	46 01.00	1.5	
		eS	50 42.00		
ANN	28.22 293	eP	46 04.40	-0.8	
	Z 15s 75.00um			6.4MszX	
	N 18s 120.00um				
	E 15s 6.50um				
		ePP	46 48.40		
		ePcP	49 21.40		
		eS	50 50.40		
TIY	28.94 82	Pc	46 13.00	1.1	
		pP	46 21.00	28kmX	
		PP	47 02.00		
		PPP	47 16.50		
		PcP	49 24.50		
		S	50 59.00		
		sS	51 16.00		
MOS	29.28 315	iPd	46 15.00	0.4	
	2.0s 960.00nm			6.2mb	
	N 16s 310.00um				
	E 18s 64.90um				
		iPP	47 04.00		
		iPPP	47 25.00		
		eS	51 08.00		
CHG	29.38 129	iPd	46 13.90	[illegible]	
	1.7s 55.80nm			5.1mb	
		eS	51 38.00		
CHTO	29.38 129	eP-	46 13.00	-3.0X	
	2.0s 58.10nm			5.0mb	
		i	46 19.50		
GYA	29.40 108	P	46 17.00	0.8	
		pP	46 27.00	35kmX	
KVT	29.62 285	eP	46 19.00	1.1	
OBN	29.69 314	ePc	46 18.30	0.0	
	1.4s 420.00nm			6.1mb	
		ePP	47 12.00		
		iS	51 14.00		
NRI	30.26 9	iPc	46 23.60	0.4	

	1.8s 280.00nm			5.8mb	
	Z 18s 38.00um			6.1Msz	
	N 14s 17.00um				
	E 12s 62.00um				
		ePP	47 19.00		
		ePPP	47 32.00		
		iS	51 23.00		
SIM	30.47 293	eP	46 25.00	-0.4	
	Z 20s 59.50um			6.2Msz	
	N 20s 6.50um				
	E 20s 76.50um				
		ePP	47 29.00		
		ePPP	47 47.00		
		eS	51 29.00		
		eSS	53 01.00		
BOD	30.65 41	eP	46 26.10	-0.7	
	1.0s 230.00nm			6.0mb	
BJI	31.18 76	eP	46 32.00	0.4	
		eS	51 30.00		
		SS	53 00.00		
TIA	32.98 83	eP	46 47.20	-0.2	
		pP	46 57.50	37kmX	
		ePP	47 58.00		
		eS	52 04.00		
TUP	33.00 49	eP	46 46.70	-0.7	
	1.7s 310.00nm			6.0mb	
WHN	33.10 94	eP	46 48.00	-0.5	
		iS	52 11.00		
		PcS	53 12.00		
JER	33.22 268	eP	46 53.50	3.8X	
		eS	52 18.00		
KIS	33.93 298	iP	46 56.00	0.5	
	Z 19s 48.40um			6.2Msz	
	N 14s 80.00um				
	E 15s 25.00um				
		iPP	48 16.00		
		iPPP	48 31.00		
		iS	52 14.00		
GPA	34.05 285	eP	46 56.00	-0.7	
PCT	34.07 130	eP	46 57.20	0.1	
	1.2s 46.30nm			5.3mb	
PUL	34.15 320	iPd	46 59.00	1.7	
	1.2s 400.00nm			6.2mb	
	Z 12s 70.00um			6.6MszX	
	E 12s 80.00um				
		ePP	48 06.00		
		ePcP	49 34.00		
		iS	52 26.00		
ALT	34.52 283	eP	47 03.00	2.1	
BCK	34.63 280	eP	47 01.50	-0.3	
IAS	34.80 298	eP	47 10.00	7.0X	
PPE	34.87 296	eP	47 15.50	11.8X	
CLI	35.06 297	iPc	47 08.00	2.7	
FOC	35.24 295	eP	47 11.00	4.2X	
BAC	35.32 297	eP	47 08.00	0.5	
ELL	35.38 280	iP	47 10.10	1.8	
DST	35.47 285	eP	47 07.20	-1.7	
VRI	35.54 296	eP	47 12.00	2.6	
DMK	35.56 289	eP	47 09.00	-0.6	
ISR	35.77 295	eP	47 16.00	4.6X	
APA	35.83 334	iPd	47 12.80	1.2	
	0.9s 40.00nm			5.3mb	
	Z 11s 90.00um			6.8MszX	
		isP	47 18.50		
		iS	52 49.00		
EDC	35.84 286	eP	47 11.00	-1.0	
NJ2	35.89 89	Pc	47 13.00	0.5	
		eS	52 50.00		
MLR	36.13 295	iPc	47 16.00	1.4	
BUC1	36.27 293	eP	47 20.00	4.5X	
GZH	36.29 106	eP	47 16.50	0.6	
KJF	36.61 327	iP	47 18.50	0.4	
	0.8s 39.60nm			5.3mb	
		eS	53 00.00		
CMP	36.80 295	iPc	47 24.00	4.0X	
SUF	36.86 325	iP	47 20.20	-0.1	
	0.5s 39.10nm			5.5mb	
LVV	36.90 303	eP	47 23.00	2.2	
	Z 15s 85.00um			6.7MszX	
	N 16s 148.00um				
	E 14s 90.00um				
		ePP	48 45.00		
		ePPP	49 12.00		
		iS	53 07.00		
		isS	53 12.00		
		iSS	55 33.00		
		iSSS	56 05.00		

MCO	37.03 107	iP	47 27.20	5.1X	
HLW	37.04 268	eP	47 23.00	0.8	
		iS	53 14.00		
NUR	37.08 321	iP	47 21.40	-0.7	
	0.9s 89.60nm			5.6mb	
	Z 17s 11.40um			5.7MszX	
		i	47 24.40		
		eS	53 06.00		
PVL	37.12 292	eP	47 25.00	2.3	
CN2	37.13 67	P	47 24.80	2.1	
		PP	48 49.00		
		S	53 08.00		
		SS	55 34.00		
COZ	37.27 295	eP	47 28.00	3.8X	
KDZ	37.35 289	iPd	47 27.00	2.4	
HKC	37.37 106	iP	47 30.50	5.5X	
		iS	48 58.00		
DRA	37.45 294	eP	47 28.00	2.5	
CJR	37.55 298	eP	47 26.80	0.4	
SSE	38.10 89	P+	47 32.00	1.0	
	Z 12s 46.00um			6.5MszX	
	N 16s 60.80um				
	E 12s 34.90um				
		i	48 48.00		
		eS	53 24.00		
		SS	56 04.00		
SOD	38.10 332	iP	47 27.70	-2.9	
UZH	38.15 301	eP	47 33.00	1.7	
	Z 13s 50.00um			6.5MszX	
	N 14s 130.00um				
	E 14s 50.00um				
		ePP	48 57.00		
		eS	53 25.00		
DEV	38.17 297	ePd	47 35.00	3.5X	
VTS	38.66 291	eP	47 35.00	-0.6	
BSI	38.82 147	eP	47 34.50	-2.7	
KEV	38.89 336	iP	47 40.00	2.8X	
	0.9s 71.00nm			5.4mb	
		iPP	49 12.00		
		eS	53 36.00		
SSR	39.17 295	eP	47 40.00	0.1	
YAK	39.21 37	iPd	47 38.40	-1.5	
	0.9s 410.00nm			6.1mb	
		iPP	49 12.00		
		iPPP	49 34.00		
		iS	53 39.00		
		iSS	56 19.60		
		iSSS	56 54.00		
JOS	39.33 301	eP	47 41.00	-0.2	
TIM	39.35 297	iPd	47 26.00	-15.3X	
SPC	39.42 302	eP	47 46.60	4.4X	
	6.0s 5.40nm			3.4mb X	
VAY	39.45 290	iP	47 41.20	-1.0	
KRA	39.51 304	eP	47 39.20	-3.4X	
	0.9s 158.00nm			5.7mb	
	Z 22s 79.50um			6.5Msz	
	N 22s 205.00um				
	E 22s 60.30um				
		e	47 41.10		
		e	47 44.50		
		i	47 47.90		
		i	47 51.10		
		e	49 23.00		
		eS	53 41.00		
ATH	39.62 284	eP	47 52.00	8.3X	
		ePP	49 20.00		
		eS	53 40.00		
SNG	39.82 138	eP	47 42.00	-3.5X	
PSZ	39.85 300	eP	47 47.00	1.4	
MDJ	39.86 65	eP	47 48.00	2.4	
		PP	49 24.00		
		eS	53 50.00		
		sS	54 05.00		
TDD	40.01 234	eP	47 50.80	3.7X	
SKO	40.08 291	iPc	47 50.00	2.5	
		iPP	49 33.00		
		iS	53 56.00		
ARO	40.26 234	eP	47 52.50	3.2X	
		i	47 55.00		
DAF	40.40 235	eP	47 55.60	5.3X	
SGH	40.46 234	eP	47 54.00	3.1X	
UPP	40.49 319	iP	47 43.80	-6.8X	
	1.0s 200.00nm			5.8mb	
		i	47 52.00		
BUD	40.50 300	eP	47 51.00	0.2	
KIR	40.51 331	eP	47 50.00	-0.6	
KSU	40.52 235	eP	47 58.80	7.5X	

13d 01h

OHR	40.79	290	iP	47 55.00	1.7
			i	49 29.10	
SRO	40.91	300	e(P)	48 02.00	7.8X
			e(PP)	49 31.20	
			e(S)	53 55.00	
			i	57 05.00	
KHE	41.24	356	eP	47 59.00	2.5
	1.3s	410.00nm			6.0mb
	Z 14s	78.00um			6.7MszX
	N 14s	58.00um			
	E 14s	35.00um			
			iPP	49 40.00	
			iS	54 16.00	
			iS	57 06.00	
ANP	41.26	97	eP+	48 02.00	4.6X
			iS	54 25.00	
TIK	41.28	23	ePc	47 57.00	0.1
	0.9s	210.00nm			5.9mb
	Z 15s	90.00um			6.8MszX
	N 11s	35.00um			
	E 15s	87.00um			
			ePP	49 37.00	
			ePcP	49 59.00	
			ePPP	50 05.00	
			eS	54 12.00	
TATO	41.35	97	P+	48 05.00	7.0X
ZST	41.64	301	iP	48 02.30	2.1
			e	49 25.00	
			i(PP)	49 40.50	
KSP	41.71	305	eP	47 59.50	-1.2
	1.5s	147.00nm			5.5mb
			iPP	49 44.00	
			e	54 18.00	
			iS	57 10.00	
VLA	41.84	67	eP	48 02.00	0.1
			ePP	49 46.00	
TSI	42.03	144	e(P)	48 06.00	2.4
VIE	42.12	301	eP	48 05.50	1.4
			e	49 43.00	
			e	57 05.00	
			i	03 37.00	
VKA	42.14	301	e(P)	48 06.00	1.7
			e	50 02.00	
IPM	42.25	140	ePd	48 05.00	-0.5
HFS	42.47	319	eP	48 05.80	-1.0
	0.8s	128.00nm			5.7mb
	Z 16s	71.70um			6.7MszX
PSI	42.90	144	ePc	48 08.20	-2.6
	0.6s	24.90nm			5.1mb
PRU	42.96	304	eP	48 10.20	-0.7
	1.5s	134.00nm			5.5mb
	N 17s	219.00um			
	E 17s	68.40um			
			PP	49 56.00	
			S	54 27.00	
BRG	43.17	306	eP	48 11.90	-0.8
	1.4s	190.00nm			5.6mb
			e	48 17.00	
			e	49 59.00	
			eS	54 44.00	
			ScS	58 13.10	
BRL	43.31	308	eP	48 14.50	0.8
COP	43.40	313	iPc	48 19.80	5.4X
	0.7s	148.00nm			5.9mb
			iS	54 45.00	
KMR	43.62	302	eP	48 30.00	13.7X
CLL	43.68	306	eP	48 15.00	-1.8
	1.3s	135.00nm			5.6mb
			eS	54 46.00	
NB2	43.68	321	P	48 14.30	-2.5
	0.8s	106.00nm			5.7mb
KHC	43.74	303	iPd	48 16.90	-0.5
	1.2s	90.00nm			5.4mb
	Z 10s	18.50um			6.3MszX
	E 10s	19.00um			
			i	48 20.00	
			S	54 50.00	
LJU	43.83	299	eP	48 17.90	-0.2
			eS	54 52.40	
			eSS	58 12.00	
KLM	43.84	140	ePc	48 19.50	1.1
CEY	43.98	298	ePd	48 21.70	2.4
WET	44.19	303	iPc	48 20.60	-0.4
	1.4s	216.00nm			5.8mb
KBA	44.37	300	eP	48 22.00	-0.6
	0.9s	56.80nm			5.4mb
			i	48 29.30	

			i	48 35.30	
			i	48 49.00	
			i	50 04.50	
			i	50 22.10	
			(S)	54 18.20	
TRI	44.44	298	eP	48 22.70	-0.3
			i	48 49.50	
			ePP	50 05.50	
			iPPP	50 46.00	
			iS	54 56.00	
			iSS	58 22.00	
KON	44.56	319	iP+	48 25.70	1.9
PIP	44.57	105	eP	48 27.50	3.2X
MOX	44.67	306	eP	48 24.00	-0.8
	2.2s	438.00nm			6.0mb
	Z 13s	61.90um			6.7MszX
	N 16s	132.00um			
	E 17s	65.50um			
			i	48 32.50	
			iPP	50 20.00	
			iS	55 00.00	
			iSS	58 25.00	
AAE	44.75	236	eP	48 27.50	1.3
SZP	44.94	106	eP	48 34.50	7.2X
GRF	45.12	305	eP	48 28.30	-0.2
	1.1s	313.00nm			6.2mb
	Z 16s	78.50um			6.7MszX
			e	58 32.00	
HAM	45.16	310	eP	48 35.50	6.9X
SHK	45.39	78	eP	48 34.40	3.7X
FUR	45.45	302	eP	48 30.70	-0.4
	1.2s	396.00nm			6.2mb
			eS	55 16.50	
KGM	45.61	139	ePc	48 32.50	-0.1
			e	51 12.50	
BAG	45.75	108	eP	48 35.80	1.8
	1.7s	308.00nm			6.0mb
			eS	55 20.00	
OGA	45.95	301	eP	48 33.60	-1.7
KBS	45.98	346	iP	48 36.80	1.9
			iS	55 21.00	
PPI	46.36	144	ePc	48 37.50	-1.0
	0.8s	70.10nm			5.7mb
			e(S)	55 25.50	
OKH	46.57	49	iPc	48 40.60	0.8
	6.0s	2600.00nm			6.4mb X
	Z 12s	49.90um			6.7MszX
	N 12s	20.00um			
	E 12s	46.80um			
			iS	55 33.40	
			eSPP	55 46.00	
BER	46.62	320	iPd	48 43.00	2.9X
FIR	46.71	297	eP	48 42.00	1.0
			ePP	50 47.00	
			iPPP	51 30.00	
			iS	55 27.00	
TNS	46.74	306	eP	48 43.50	2.2
			ePP	49 59.00	
			e	59 08.00	
WIT	47.21	310	eP	48 48.00	3.2X
	1.0s	206.00nm			6.1mb
WTS	47.31	309	eP	48 44.50	-1.2
	0.8s	85.00nm			5.8mb
			e	48 48.50	
			e	48 55.00	
BGG	47.43	306	eP	48 45.50	-1.2
ZUL	47.51	302	ePd	48 46.10	-1.3
GWF	47.58	304	iPc	48 48.20	0.3
CDF	47.96	304	eP	48 50.00	-1.0
	0.9s	48.20nm			5.5mb
YSS	48.09	58	ePc	48 56.00	4.1X
	0.8s	30.00nm			5.4mb
	Z 13s	40.00um			6.6MszX
	N 13s	39.20um			
	E 13s	21.80um			
			ePcP	50 18.00	
			ePP	50 44.00	
			eS	55 52.00	
ENN	48.16	307	eP	48 51.00	-1.3
	1.0s	87.00nm			5.8mb
			e	48 55.00	
			e	49 01.00	
DBN	48.27	309	eP	48 57.00	3.9X
	Z 20s	23.00um			6.2Msz
			ePP	50 52.00	
			eS	55 57.00	
			eSS	59 18.00	

WLF	48.32	306	P	48 55.00	1.5
			PP	50 51.00	
			S	55 51.00	
			SS	59 24.00	
BSF	48.44	303	iPc	48 53.60	-1.1
	0.9s	108.00nm			5.9mb
DIX	48.57	301	ePd	48 54.10	-1.9
MAT	48.67	73	(P)	48 56.00	-0.5
	1.0s	78.00nm			5.7mb
			eS	55 46.00	
HAU	48.67	303	iPc	48 55.20	-1.2
	0.8s	61.50nm			5.7mb
PPR	48.92	116	eP	48 57.00	-1.6
UCC	49.11	308	P+	49 01.30	1.7
			e	49 12.00	
			e	49 23.00	
			PP	50 57.20	
			S	56 09.00	
			SS	59 32.00	
DOU	49.16	307	Pc	48 59.10	-1.0
			e	49 09.00	
			S	56 09.00	
			SS	59 53.00	
MGD	49.47	40	eP	49 00.00	-2.3
	1.4s	160.00nm			5.8mb
	Z 14s	41.00um			6.6MszX
	E 14s	35.00um			
			ePP	51 00.00	
			ePPP	51 47.00	
			eS	56 10.00	
			eSS	59 37.00	
SEY	49.68	36	ePc	49 04.10	0.2
	1.8s	100.00nm			5.5mb
	Z 13s	31.00um			6.5MszX
	N 11s	42.00um			
	E 18s	37.00um			
			ePP	51 06.10	
			eS	56 09.10	
KKM	49.94	122	ePd	49 07.60	1.0
	1.1s	59.30nm			5.5mb
CDR	50.49	298	ePc	49 14.90	4.6X
			i	49 17.00	
LOR	50.50	303	iPc	49 08.50	-1.9
	0.7s	35.00nm			5.4mb
LBF	50.52	303	iPc	49 08.70	-1.9
	0.9s	25.60nm			5.2mb
SSF	50.80	303	iPc	49 11.00	-1.6
	1.0s	44.50nm			5.4mb
AVF	50.99	303	iPc	49 12.60	-1.5
CNP	51.28	108	eP	49 18.00	1.4
MZF	51.69	302	iPc	49 18.30	-1.1
SHO	51.86	61	eP	49 20.00	-0.7
	0.6s	0.04nm			2.5mb X
	Z 15s	81.00um			6.9MszX
	N 15s	56.00um			
	E 15s	58.00um			
			eSS	00 12.00	
TCF	51.90	303	iPc	49 19.90	-1.2
	0.9s	50.40nm			5.4mb
KUR	52.06	59	iPc	49 33.00	10.8X
	6.0s	2000.00nm			
	Z 14s	34.50um			6.5MszX
	N 12s	39.00um			
	E 12s	38.50um			
			eS	56 51.00	
EKA	52.13	315	P	49 20.00	-2.6
	0.6s	12.10nm			5.0mb
ESK	52.16	315	iP	49 20.60	-2.3
	1.0s	120.00nm			5.8mb
LSF	52.36	303	iPc	49 22.80	-1.7
	0.8s	36.00nm			5.4mb
CAF	52.50	301	iPc	49 24.70	-0.9
	0.8s	39.00nm			5.4mb
LDF	52.56	306	eP	49 24.20	-1.8
	0.6s	65.50nm			5.7mb
RJF	52.72	302	eP	49 26.30	-0.9
	0.8s	35.50nm			5.3mb
FLN	52.73	306	eP	49 25.20	-2.0
GRR	53.10	306	iPc	49 27.90	-2.0
	0.8s	83.20nm			5.7mb
LPO	53.17	301	eP	49 29.30	-1.2
	0.8s	41.20nm			5.4mb
MFF	53.30	304	eP	49 29.60	-1.9
	0.8s	44.80nm			5.5mb
LPF	53.34	306	iPc	49 29.60	-2.1
	0.6s	36.00nm			5.5mb
LFF	53.37	301	iPc	49 30.70	-1.2

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        0.8s    55.30nm          5.6mb
NAI     54.00 230 eP     49 39.00   1.8
        1.5s    97.20nm          5.6mb
CGP     54.04 112 eP     49 34.50  -2.7
EPF     54.39 299 iPc    49 37.30  -2.3
        0.8s    19.80nm          5.2mb
DDK     54.53 313 iPc    49 38.10  -2.3
        0.7s   150.00nm          6.1mb
DMU     54.67 314 iPc    49 41.00  -0.4
        1.2s   220.00nm          6.1mb
DLE     54.68 313 iPc    49 39.70  -1.8
        0.7s    90.00nm          5.9mb
DCN     55.07 314 iPc    49 42.00  -2.4
        0.7s   120.00nm          6.0mb
SKR     55.17  50 eP     49 44.20  -0.9
        0.6s    50.00nm          5.7mb
      Z  14s    31.60um          6.5MszX
      N  14s    31.60um
      E  14s    25.30um
                 ePcP    50 42.40
                 eS      57 31.60
                 eSS     01 05.60
ABA     55.21 291 eP     49 45.50  -0.1
EBR     55.21 297 eP     49 47.00   1.5
                 eS      57 26.00
LEM     55.36 140 ePd    49 48.50   1.5
DAV     55.61 112 eP     49 50.00   1.3
                 eS      57 40.00
AKU     55.65 330 eP     49 48.80   0.5
        1.2s    75.00nm          5.6mb
PET     55.73  47 eP     49 44.00  -5.1X
      Z  14s    17.00um          6.3MszX
      N  14s    23.00um
      E  14s    15.40um
                 eS      57 34.00
                 eScS    59 40.00
LGR     56.53 300 iPc    49 57.30   2.2
                 i       50 48.30
VAL     57.29 313 iP     50 02.70   2.5
                 iS      57 54.00
TRT     58.71 135 iPc    50 09.00  -1.5
        0.4s    45.20nm          5.9mb
TOL     58.73 298 eP     50 11.00   0.4
                 ePP     52 28.00
                 iPPP    53 53.00
                 iS      58 21.00
                 iSS     02 08.00
ILT     59.20  25 iPc    50 12.80  -0.6
        1.0s    70.00nm          5.7mb
      Z  18s    50.00um          6.7Msz
      N  20s    32.00um
      E  20s    45.00um
                 iPcP    51 10.00
                 iPP     52 25.00
                 iS      58 16.00
                 eSP     58 29.00
                 eSSS    04 36.00
CRT     59.71 295 eP     50 21.00   3.5X
TAM     60.48 276 iP     50 18.50  -4.5X
MAL     60.50 295 iP     50 22.50  -0.3
                 iPPP    54 23.00
                 iS      58 28.00
                 iSS     02 38.00
MKS     60.65 127 e(P)   50 22.00  -2.0
PTO     61.18 301 eP     50 28.00   0.7
                 eS      54 22.00
SFS     61.89 295 eP     50 30.00  -2.2
                 ePP     53 22.00
                 eS      57 41.00
                 eSS     02 01.00
BNG     61.96 251 iPd    50 31.00  -1.9
        1.0s    20.00nm          5.2mb
BCAO    61.97 251 iPd+   50 30.00  -3.0
        1.0s   111.00nm          6.0mb
                 eS      58 52.00
IFR     62.64 292 iP     50 39.50   2.0
MBC     63.67   4 eP     50 41.50  -1.9
        0.8s   195.00nm          6.3mb
AVY     63.97 209 ePd    50 45.10  -1.1
NPA     64.21 219 eP     50 50.00   2.4
AVE     64.38 293 iP     50 50.50   1.8
GDH     64.74 342 iPc    50 50.20  -0.3
        1.0s    20.00nm          5.2mb
                 i       59 42.00
ANM     65.52  24 P      50 55.00  -0.5
GUMO    65.85  92 P+     50 58.00  -0.3
                 eS      59 44.00
GUA     65.91  92 e(P)   50 48.40 -10.4X
      Z  18s     8.25um          6.0Msz
CLK     66.86 223 eP     51 03.00  -1.7
                 eS      59 32.00
KUPT    67.04 127 eP     51 10.50   4.7X
IMA     67.76  19 ePc    51 08.10  -1.9
TET     67.98 224 iP     51 12.00   0.3
        1.0s     0.11nm          3.0mb X
                 e(S)    00 13.00
TTA     69.56  22 ePd    51 20.90  -0.2
MTD     69.57 225 eP     51 21.00  -0.7
INK     69.91  11 eP     51 22.00  -0.9
        1.2s   167.00nm          6.0mb
COL     70.16  18 eP     51 23.00  -1.6
      Z  19s    22.00um          6.4Msz
FBA     70.16  18 P      51 24.30  -0.3
        0.9s    46.90nm          5.6mb
KRI     70.69 226 eP     51 28.00  -0.6
PMR     72.58  21 ePc    51 38.00  -1.1
        0.8s    25.70nm          5.3mb
      Z  18s    27.00um          6.6Msz
FRB     72.67 344 eP     51 40.00   0.4
TOA     72.91  19 P      51 41.40   0.2
JAY     73.12 108 ePd    51 39.00  -4.0X
BUL     73.93 225 eP     51 50.00   2.3
                 iS      01 19.00
KDC     74.75  24 P      51 51.50  -0.2
PCA     76.08  17 (P)    51 56.70  -2.8
CNG     77.16 219 iP     52 09.00   3.3X
YKA     77.56   5 eP     52 07.30  -0.1
RSNT    77.57   5 P      52 06.40  -1.1
YKC     77.58   5 eP     52 06.50  -1.1
        0.9s   114.00nm          5.9mb
MEK     77.58 141 eP     52 07.00  -1.1
KIC     78.25 268 eP     52 10.10  -2.0
SLR     78.65 222 iPc    52 17.60   3.4X
        1.2s    32.80nm          5.2mb
      Z  18s     5.02um          5.9Msz
PRE     78.72 222 e(P)   52 17.00   2.5
BPI     79.14 222 eP     52 18.00   1.1
PRY     80.04 222 eP     52 20.00  -1.7
MUN     81.06 146 eP     52 27.00   0.2
WRA     81.16 125 Pc     52 26.50  -1.0
        1.3s    46.40nm          5.4mb
WB2     81.16 125 eP     52 26.70  -0.9
FCC     81.20 354 eP     52 29.00   1.8
VIR     81.29 222 eP     52 29.50   1.3
WBN     81.34 135 eP     52 29.00   0.6
        0.5s    14.00nm          5.3mb
SWZ     81.37 224 iPc    52 01.50 -27.2X
        0.6s    57.00nm
NWAO    82.32 145 eP     52 34.00   0.7
      Z  20s     2.40um          5.6Msz
      N  20s     2.00um
      E  20s     1.30um
KLG     82.46 141 eP     52 35.00   0.9
BLF     82.47 222 eP     52 35.00   0.6
PMG     82.47 109 eP     52 27.00  -7.5X
MBO     82.53 282 eP     52 38.50   3.7X
                 e       52 50.00
                 e       02 52.00
                 e       03 26.00
KIM     82.91 223 eP     52 37.00   0.4
        0.9s    50.00nm          5.7mb
HVD     84.03 221 iPd    52 45.20   2.9X
        0.9s    33.00nm          5.6mb
FFC     85.62 358 eP     52 49.50  -0.4
        0.9s    84.00nm          6.0mb
EDM     86.86   5 ePc    52 56.10   0.0
        0.6s    77.00nm          6.1mb
CBM     87.48 336 eP     53 02.00   2.9X
SUR     87.87 224 iPd    53 05.60   4.4X
        0.9s    37.00nm          5.7mb
      Z  19s    10.80um          6.3Msz
RSON    89.01 353 eP     53 05.30  -1.1
                 i       53 09.00
CTA     89.08 117 iPc    53 07.90   0.8
                 iSKS    03 37.00
                 i       09 51.00
CTAO    89.08 117 e(P)   53 05.00  -2.1
        1.1s    40.60nm          5.6mb
EMM     89.22 334 eP     53 14.50   7.0X
SES     89.82   4 eP     53 10.00  -0.3
        0.8s    66.00nm          5.9mb
PNT     90.11  10 eP     53 12.00   0.4
        0.6s    38.00nm          5.8mb
PGC     90.20  12 eP     53 12.10   0.1
MNT     90.41 339 eP     53 19.00   6.0X
LHC     90.90 350 eP     53 18.00   2.8X
RXF     91.05   7 eP     53 17.00   0.9
OTT     91.08 340 eP     53 20.00   3.9X
GMW     91.38  12 (P)    53 19.00   1.5
LDM     91.44   7 iPc    53 20.50   2.7X
NEW     91.45   8 eP     53 18.20   0.4
RSNY    91.54 339 e(P)   53 20.80   2.5
LHD     91.61   7 eP     53 19.00   0.3
CLX     91.70   7 eP     53 20.70   1.5
APH     92.19 339 P      53 22.00   0.7
SHW     92.79  12 e(P)   53 24.80   0.6
AMM     93.98   6 ePd    53 31.00   1.2
LRM     94.29   5 eP     53 32.40   1.1
ADE     94.80 132 e(P)   53 36.80   3.6X
RSSD    96.27 359 e(P)   53 41.00   0.7
IMW     96.31   4 e(P)   53 42.70   2.1
BDW     97.50   4 e(P)   53 46.00   0.1
        0.9s     7.35nm          5.2mb
                 ePP     57 59.30
BMN     99.16  10 ePDIF  54 00.20   6.9X
        0.9s    17.58nm          5.6mb
DUG     99.86   6 e(P)   53 58.30   1.8
EUR    100.24   9 iPdif54 04.00    5.8X
        0.8s     0.74nm          4.3mb X
GOL    100.68   0 e(Pdif53 47.00 -13.2X
      Z  20s    17.00um          6.6Msz
MNA    101.00  11 (Pdif54 02.50    1.1
FVM    101.29 348 e(Pdif54 04.80   2.3X
ELC    101.78 347 (Pdif54 06.00    1.3
RLO    103.68 352 e(Pdif54 08.00  -5.2X
TUL    104.02 352 ePdif54 18.50    3.8X
        0.9s     7.50nm          5.5mb
      Z  19s     5.31um          6.1Msz
ANMO   105.42   1 e(Pdif54 25.00   3.8X
GLA    106.73   9 (PKP) 58 37.50   0.2
NVL    119.33 200 ePKP  59 10.00   9.9X
KRP    120.05 116 ePKP  59 17.00  14.6X
                 ePP     02 04.00
                 eS      04 50.00
VAO    128.73 271 ePKP  59 22.90   3.2X
SPA    129.80 180 e(PKP)59 20.00  -0.5
        1.1s    12.70nm
      Z  20s     7.80um          6.4Msz
ZOBO   140.36 296 ePKP  59 43.50   1.2
      Z  22s     2.69um          6.0Msz
LPB    140.53 296 PKPd  59 44.20   1.8
        1.1s    35.40nm
      Z  23s     6.44um          6.3MszX
ARE    142.79 299 ePKP  59 44.00  -2.3X
AIA    145.74 209 iPKP  59 53.00   3.6X
TCA    146.45 272 e(PKP)59 53.00   1.2
ANT    146.84 289 ePKP  59 56.00   3.5X
VBA    146.91 259 ePKPd 59 52.50   0.2
VCA    147.99 279 ePKPd 59 57.00   2.6X
CFA    149.37 274 ePKPd 00 02.00   5.6X
CEN    149.75 275 ePKP  00 03.00   6.0X
RFA    150.81 269 ePKPd 00 02.20   3.7X
JACH   151.63 274 iPKPd 00 07.80   8.0X
FCH    151.66 273 iPKP  00 08.10   7.9X
LOT    151.79 272 iPKPc 00 06.70   6.6X
BACH   151.82 273 ePKP  00 08.00   7.9X
PEL    151.89 273 iPKPd 00 07.70   7.6X
        0.9s    71.40nm
PCH    151.95 272 iPKPc 00 10.00   9.7X
ROCH   152.07 274 iPKPc 00 04.40   3.8X
LNV    152.77 272 iPKP  00 08.30   7.1X
      S.D. = 1.4  on 283 of 389 obs.

   APR  03, 1983  02h 50m 02.06± 0.27s
    8.699 N ± 1.5km   83.148 W ± 1.5km
   DEPTH =  45.9 ±  2.4 km
   6.4mb ( 85 obs.)  7.3Msz ( 24 obs.)
 COSTA RICA                          ( 78)
      Five people died from heart
      attacks, one person killed by a
      collapsing house, and several
      people injured in southeastern
      Costa Rica. Also felt strongly
      in southwestern Panama.

SJS      1.52 324 iPd    50 26.80  -0.6
SSS      7.73 310 iPc    51 54.40  -0.5
GAL      8.05  74 iP     52 04.50   5.3X
LPS      8.10 314 iPc    52 00.00  -0.1
CHN      8.35 116 iP     52 04.00   0.5
QZG      8.49 315 eP     52 08.60   3.0X
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TABLE 4-76

03d 02h

YUP	8.51	311	eP	52	04.30	-1.5	UTO	32.83	359	iPd	56	38.00	4.6X	MHC	44.97	315	ePc	58	16.10	1.2
			eS	53	50.00		GFD	33.10	12	eP	56	36.70	0.9	RFA	45.41	163	ePc	58	18.30	0.1
JMG	8.95	309	eP	52	11.00	-0.9	TPL	33.13	158	eP	56	35.50	-0.7	SOB3	45.56	113	eP	58	18.50	-1.2
MRL	9.00	315	eP	52	13.60	1.0	ALQ	33.74	324	ePc	56	40.00	-1.7				e	58	27.00	
REC	9.20	309	eP	52	13.80	-1.6		0.8s	116.00nm				5.8mb				e	58	30.30	
			eS	54	03.00		Z	18s	206.00um				6.9Msz				e	58	56.00	
SLP	9.21	311	eP	52	15.50	0.0	ANMO	33.74	324	ePc	56	48.60	-1.1	BKS	45.64	316	eP	58	24.80	4.8X
TER	9.25	308	eP	52	14.70	-1.2	DLA	34.05	2	P	56	43.45	-0.5		Z	20s	280.00um			7.2Msz
			eS	54	02.00		INY	34.12	9	iPd	56	45.50	0.9		N	20s	235.00um			
GCG	9.30	310	eP	52	16.00	-0.7	DHN	34.27	6	iP	56	46.30	0.4		E	20s	165.00um			
MMG	9.39	309	eP	52	16.80	-1.2	ELF	34.40	2	P	56	46.20	-0.8				eS	05	11.20	
PSO	9.45	142	iP	52	18.00	-0.9	ANT	34.53	159	eP	56	49.00	0.7	ORV	46.00	318	P	58	23.50	0.7
VLG	9.47	306	eP	52	18.20	-0.6				eS	02	00.00		CON	46.27	169	iP	58	38.20	13.4X
RDG	9.52	312	eP	52	19.70	-0.1				i	02	22.00					iS	05	07.80	
LHG	9.72	307	eP	52	23.50	1.1	WES	35.13	15	eP	56	53.80	0.6	NWRM	46.38	316	ePc	58	26.90	1.2
TP2	9.80	309	eP	52	23.80	0.1	YJA	35.22	151	ePc	56	54.00	-0.8	MIN	46.48	319	ePc	58	26.30	-0.5
FUO	9.87	108	iP	52	25.00	0.3	APH	35.81	11	eP	56	59.00	-0.1	STJ	46.54	28	eP	58	30.00	3.2X
BOG	9.89	114	iP	52	26.50	1.6	PTN	36.43	10	iP	57	04.70	0.5	RMT	46.96	318	e(P)	58	28.90	-1.4
BMG	10.11	98	iP	52	26.00	-1.7	RSNY	36.49	10	iPc	57	05.10	0.4	WDC	47.21	319	ePc	58	30.50	-1.8
COM	11.54	311	iP	52	46.00	-1.3	GLD	36.68	331	ePc	57	06.20	-0.4	LGBM	47.39	320	ePc	58	33.30	-0.8
LGN	11.81	82	e(P)	52	57.50	6.8X	GOL	36.71	331	iPc	57	06.10	-0.8	SES	47.57	336	iPc	58	34.00	-1.1
LGN	11.81	82	e(P)	53	02.90	12.2X	OTT	37.12	9	iPc	57	10.40	0.5	ITR	47.81	110	ePd	58	35.00	-1.6
UAV	11.87	90	eP	52	56.20	4.5X		1.2s	1140.00nm				6.7mb	SCH	47.81	13	ePc	58	36.00	-0.9
SDV	12.37	88	eP	52	58.00	-0.4	BNH	37.22	14	eP	57	12.00	1.2		0.8s	438.00nm				6.5mb
TOV	13.23	84	iPd	53	14.00	4.4X	SLA	37.42	153	iPd	57	13.80	0.9	TMU	48.20	169	iP	58	47.20	7.2X
SOR	14.01	1	iPc	53	22.00	2.2				S	03	06.00					iS	05	46.60	
	8.0s	******nm				7.2mb X	MNT	37.58	11	iPc	57	14.50	0.7	FHC	48.27	318	ePc	58	41.40	0.7
CAR	16.09	82	iPd	53	46.00	-1.0		1.9s	3060.00nm				6.9mb	FFC	48.30	345	iPc	58	40.00	-0.6
	1.2s	369.00nm				5.4mb X	GLA	37.99	314	iPc	57	19.00	1.5	NEW	48.73	330	iP	58	42.60	-1.5
			e	53	47.00		EMM	38.39	18	eP	57	22.50	1.9				e	58	50.50	
IIT	17.93	306	iP	54	16.00	5.9X	MIM	38.40	16	eP	57	22.00	1.3				e	59	16.00	
ACX	18.20	298	eP	54	15.30	2.2	MSU	39.52	323	eP	57	30.80	0.3	LPA	49.50	153	iP+	58	54.80	4.8X
III	18.54	303	eFc	54	18.60	1.1	RSSD	39.69	336	iPc	57	31.80	0.0		0.8s	513.00nm				6.6mb
IIP	18.58	306	eP	54	19.80	1.6	LHC	39.92	354	eP	57	32.00	-1.3		Z 18s	157.00um				7.1Msz
IIM	18.79	306	iP	54	22.00	1.3		1.4s	1200.00nm				6.5mb	COR	49.83	323	iPc	58	54.00	1.5
MEX	18.79	306	eP	54	21.80	1.1	BKU	40.11	323	eP	57	35.10	-0.2	SHW	50.12	325	eP	58	57.30	2.4
TAC	19.84	306	eP	54	01.00	-20.3X	CBM	40.20	16	eP	57	37.00	1.3	RDJ	50.13	130	eP	58	58.40	3.3X
SJG	18.98	59	iPc	54	22.70	-0.1	SDW	40.40	315	eP	57	39.20	1.6	FCC	50.65	353	ePc	58	57.00	-1.5
IIC	19.08	307	ePd	54	25.20	1.0	TLL	40.42	163	iPc	57	38.20	0.2	PNT	50.66	330	ePc	58	58.50	-0.3
CRX	19.23	305	ePd	54	27.00	1.2	CYA	40.55	156	ePc	57	38.90	0.1		1.2s	980.00nm				6.7mb
GUV	19.86	91	iPc	54	31.60	-0.8	PAS	40.94	313	iPc	57	44.00	2.1				pP	59	30.00	136kmX
NNA	21.49	163	iPd	54	48.60	-0.5		1.8s	1200.00nm				6.3mb	EDM	50.67	337	iPc	58	57.30	-1.5
	1.5s	639.00nm				5.8mb				iPP	59	36.00			1.2s	1140.00nm				6.8mb
			eS	54	57.40					iS	04	07.00		GMW	51.22	326	eP	59	01.30	-1.8
LM2	21.52	164	eP	54	48.60	-0.7				iSS	07	17.00		PGC	52.23	327	eP	59	13.00	2.3
TRN	21.52	83	eP	54	49.40	0.0	DUG	41.01	325	ePc	57	52.70	10.1X	PHC	55.53	327	eP	59	41.00	6.2X
	1.1s	195.00nm				5.4mb	BDW	41.10	330	iPc	57	42.30	-1.1		1.6s	531.00nm				6.3mb
PAG	22.19	69	eP	54	56.00	-0.1	MOUT	41.16	327	e(P)	57	43.50	-0.5	FRB	55.94	8	iPc	59	35.50	-2.1
BPA	22.33	66	eP	54	57.50	0.0	VPEM	41.62	316	e(P)	57	47.00	-0.6	YKC	58.31	344	ePc	59	53.00	-1.4
FDF	22.35	72	eP	54	58.78	1.1	WKTM	41.97	315	eP	57	51.90	1.5		0.8s	288.00nm				6.4mb
			S	59	15.00		CEN	42.35	162	eP	57	56.00	2.4	YKA	58.36	343	eP	59	53.70	-1.0
BIM	22.38	73	eP	54	58.90	1.0	BAO	42.39	125	P	58	03.00	8.8X	RKT	59.74	237	iP	00	12.20	7.3X
SEG	22.45	68	eP	55	00.50	1.9	EUR	42.43	322	iP	57	53.50	-0.9	TEN	65.62	63	iP	00	48.00	4.1X
PT02	22.51	163	iPc	54	59.10	-0.1		0.2s	33.50nm				5.7mb				iS	09	43.00	
PT06	23.38	163	iPc	55	07.30	-0.4	CFA	42.54	161	ePd	57	55.20	0.1	PCA	66.48	333	P	00	49.20	0.2
PT06	23.38	163	iPc	55	20.70	13.0X				PP	00	05.00		RUV	67.93	250	eP	00	59.00	0.3
PT03	23.69	162	iP	55	12.20	1.5				S	04	20.00			1.0s	40.00nm				5.4mb
SBK	23.91	6	eP	55	16.00	3.4X	IMW	42.60	330	eP	57	55.20	-0.6	RUV	67.93	250	iP	01	07.00	8.3X
ZIN	24.45	6	eP	55	19.90	2.1	TMI	42.67	329	eP	57	55.50	-0.7		1.2s	230.00nm				6.1mb
OSB	24.82	5	eP	55	23.60	2.2	JACH	42.86	164	iPc	57	58.00	0.3	INK	68.03	342	iPc	00	58.40	-0.1
PRM	25.27	2	iP	55	27.20	1.5	LAV	42.95	166	iPd	58	03.50	5.2X		1.2s	1010.00nm				6.7mb
JCT	26.68	327	eP	55	37.00	-1.8	ROCH	43.02	165	iPd	57	59.00	-0.2	TPT	68.09	250	eP	01	00.00	0.3
	1.0s	550.00nm				6.1mb	PEL	43.27	165	iPd	58	01.20	0.2		1.0s	70.00nm				5.7mb
	Z 20s	70.90um				6.2MszX		1.1s	120.00nm				5.5mb	TPT	68.09	250	iP	01	08.00	8.3X
RSCP	26.87	356	iPc	55	41.00	0.5		E 24s	72.70um						1.2s	295.00nm				6.2mb
ARE	27.53	155	iPc	55	47.00	0.0				ipP	58	12.50	40kmX	VAH	68.17	250	eP	01	01.00	0.8
GRT	28.03	349	eP	55	51.20	0.2				iS	04	24.00			1.0s	50.00nm				5.5mb
POW	28.29	346	iP	55	52.50	-0.8				iScS	07	56.00		VAH	68.17	250	iP	01	08.40	8.2X
BLA	28.49	5	iP+	55	56.30	1.1	PHAM	43.36	314	ePc	58	03.30	1.6		1.2s	190.00nm				6.0mb
	1.6s	1390.00nm				6.4mb	FRI	43.46	316	iPc	58	02.50	0.0	PMO	68.35	250	eP	01	02.00	0.7
WAV	28.57	4	P	55	56.50	0.6	BACH	43.52	165	eP	58	11.00	8.0X		1.0s	70.00nm				5.6mb
ZOBO	28.92	149	eP	55	58.50	-1.4	MDZ	43.54	162	i(P)	58	07.80	4.6X	PMO	68.35	250	iP	01	09.70	8.4X
ELC	28.99	350	iP	55	57.60	-2.0	FCH	43.55	164	iPc	58	04.40	0.8		1.2s	295.00nm				6.2mb
LPB	29.16	149	Pc+	56	01.30	-0.5	TCA	43.60	157	ePc	58	03.20	-0.5	REY	69.90	24	iP	01	07.60	-2.4
			S	00	55.00		PRI	43.70	314	ePc	58	05.50	0.9	TOA	69.91	333	ePc	01	10.70	0.5
GBO	29.18	340	ePd	56	02.00	0.7	PCH	43.77	165	iPd	58	05.00	-0.1	MBC	70.32	351	eP	01	11.50	-0.9
RLO	29.41	340	ePc	56	01.40	-2.0	BMN	43.77	322	iPc	58	05.00	-0.1		1.6s	225.00nm				5.9mb
TUL	29.44	339	iPc+	56	01.80	-1.9	LNV	43.86	166	iPc	58	05.50	-0.1				pP	01	56.00	187kmX
	1.5s	1250.00nm				6.4mb	CHCH	44.03	165	iPc	58	07.00	-0.1	PPN	70.46	248	eP	01	23.00	8.7X
	Z 20s	199.00um				6.7Msz	LQT	44.03	164	iPc	58	08.20	0.9		1.2s	135.00nm				5.8mb
CVL	29.46	8	P	56	03.40	-0.4	JAS	44.45	317	iPc	58	11.30	0.8	PAE	70.63	248	eP	01	24.00	8.7X
OCO	29.74	336	eP	56	04.40	-2.0				ePcP	00	02.00			1.2s	280.00nm				6.1mb
FVM	29.89	348	iPd	56	06.30	-1.4				eScP	04	57.00		AFR	70.78	248	eP	01	25.00	8.8X
LUB	30.19	328	eP	56	09.00	-1.5	SLD	44.55	315	eP	58	12.30	1.0		1.2s	245.00nm				6.0mb
			epP	56	20.00	40kmX	SAO	44.55	315	eP	58	11.50	0.1	PME	71.04	333	P	01	17.00	0.0
PRIN	32.42	12	eP	56	30.80	1.0	WCN	44.72	319	ePd	58	13.90	1.0	PMR	71.07	332	ePc	01	16.90	-0.3
CLE	32.69	2	eP	56	32.00	-0.2	ARN	44.90	315	ePd	58	15.00	0.8		1.3s	51.90nm				5.3mb X

	Z	18s	340 00um			7.7Msz
COL		71.55	336	iPc	01 19.70	-0.4
		1.0s	264.00nm			6.1mb
				eS	10 47.00	
FBA		71.55	336	P	01 19.00	-1.1
KDC		71.71	328	ePc	01 21.30	0.2
AKU		71.97	23	iP	01 21.40	-1.1
		1.4s	1100.00nm			6.6mb
	Z	22s	203.00um			7.3Msz
				i	25 02.60	
LIS		72.13	52	iPc	01 24.40	0.4
VAL		72.67	38	iP	01 26.30	-0.6
				S	10 56.00	
PTO		72.70	50	iPc	01 27.10	-0.2
				iS	10 48.00	
HON		72.84	290	eP	01 30.00	1.6
				eS	11 00.00	
KIP		72.84	290	eP	01 30.00	1.6
				e	01 44.70	
AVE		73.37	58	iP	01 32.00	0.6
SVW		73.98	331	ePc	01 33.90	-0.5
IMA		74.24	336	P	01 35.80	-0.2
ALE		74.29	3	eP	01 34.00	-1.9
		1.2s	411.00nm			6.3mb
OHC		74.37	168	iPd	01 44.10	7.6X
SFS		74.40	55	iPc	01 40.00	2.7
				ePP	04 05.00	
				eS	11 20.00	
				eSS	14 30.00	
				eSSS	16 10.00	
TTA		74.53	333	ePc	01 37.10	-0.5
IFR		75.29	58	iP	01 43.00	0.3
SDN		75.70	325	ePc	01 45.20	0.9
DAG		75.84	12	iPc	01 43.10	-1.7
		1.3s	769.00nm			6.5mb
				iS	11 27.00	
MAL		75.84	54	iPc	01 47.00	1.5
		1.2s	13.50nm			4.8mb X
				iPP	04 12.00	
				iS	11 55.00	
TOL		76.12	51	iP+	01 47.50	0.4
				iPP	04 55.00	
				iPPP	06 28.00	
				iS	11 39.00	
				i(PS)	12 25.00	
				iSS	16 15.00	
				iSSS	20 00.00	
				i	21 50.00	
CRT		76.49	54	iP	01 51.60	2.3
				iS	11 46.10	
ALR		76.96	55	eP	01 50.00	-1.8
				i	02 04.00	
ESK		77.18	35	eP	01 52.00	-0.6
		1.5s	1400.00nm			6.8mb
EKA		77.20	35	Pc	01 51.70	-1.1
		1.2s	118.00nm			5.8mb
LGR		77.29	48	iPc	01 55.00	1.4
				ePP	04 58.00	
				eS	11 54.00	
ALM		77.41	54	iPc	01 53.70	-0.6
		1.3s	4.10nm			4.3mb X
	N	30s	2.10um			
	E	20s	6.00um			
				iPP	05 12.40	
				iS	12 38.70	
KIC		77.64	85	iPc	01 56.20	0.2
				iS	12 37.20	
LPF		78.32	43	eP	01 58.70	-0.3
GRR		78.44	42	iPc	01 59.70	0.0
		1.5s	1220.00nm			6.7mb
FLN		78.69	42	iPc	02 01.00	-0.1
		1.5s	1050.00nm			6.6mb
ANM		78.86	334	ePc	02 02.50	0.8
ALI		78.92	53	iP-	02 04.00	1.5
				eS	12 21.00	
LDF		78.93	42	iPc	02 02.10	-0.3
		1.5s	1150.00nm			6.6mb
MFF		78.94	44	iPc	02 02.40	-0.1
		1.6s	800.00nm			6.4mb
EPF		79.38	48	iPc	02 05.30	0.3
LFF		79.60	46	iPc	02 06.30	0.2
LPO		79.93	46	iPc	02 08.00	0.1
LSF		80.11	45	iPc	02 08.60	-0.2
RJF		80.14	45	iPc	02 09.10	0.1
NKI		80.54	322	ePc	02 11.70	0.8
CAF		80.54	46	iPc	02 11.20	0.0
TCF		80.58	44	iPc	02 10.90	-0.4

		1.7s	685.00nm			6.3mb
MZF		80.84	45	iPc	02 12.30	-0.4
		1.2s	513.00nm			6.3mb
AVF		81.34	44	iPc	02 14.50	-0.7
		1.6s	524.00nm			6.3mb
SSF		81.43	44	iPc	02 15.10	-0.6
		1.5s	515.00nm			6.3mb
LOR		81.65	43	iPc	02 16.40	-0.5
SMF		81.68	44	iPc	02 16.50	-0.6
		1.6s	537.00nm			6.3mb
LBF		81.75	44	iPc	02 16.60	-0.9
		1.8s	549.00nm			6.3mb
UCC		81.76	40	Pd+	02 17.00	-0.3
				PP	05 38.00	
				SKS	12 38.00	
				SS	17 58.00	
DOU		81.95	41	Pc+	02 18.00	-0.4
		1.5s	1070.00nm			6.6mb
				e	02 25.20	
				PP	05 38.00	
				SKS	12 38.00	
				e	13 02.00	
				PS	13 35.00	
DBN		82.18	38	iP+	02 19.00	-0.5
	Z	20s	112.00um			7.2Msz
				iS	12 44.00	
				ePS	13 36.00	
				eSS	18 16.00	
				e	21 40.00	
				e	24 52.00	
SSB		82.27	45	iPc	02 20.40	0.2
ENN		82.75	40	ePc	02 22.00	-0.5
		1.1s	417.00nm			6.4mb
				e	02 29.00	
				e	02 38.50	
WLF		82.99	41	P+	02 30.00	6.3X
				SKS	12 51.00	
				e	13 03.00	
				PS	13 46.00	
WIT		83.03	38	ePd	02 25.00	1.1
		1.0s	813.00nm			6.7mb
				e	02 32.50	
				e	02 40.00	
WTS		83.19	39	iPc	02 24.60	-0.1
		1.0s	549.00nm			6.6mb
				e	02 31.50	
				e	02 41.00	
HAU		83.27	43	eP	02 25.20	-0.1
BSF		83.59	43	eP	02 26.60	-0.4
BAF		83.72	43	iPc	02 27.00	-0.7
LRG		83.73	47	eP	02 28.00	0.3
		1.6s	496.00nm			6.3mb
ECH		83.79	42	iPc	02 27.60	-0.3
CDF		83.85	42	eP	02 28.10	-0.2
LMR		83.85	47	eP	02 28.30	0.0
		1.8s	648.00nm			6.4mb
FRF		83.93	47	iPc	02 28.70	0.0
		1.6s	578.00nm			6.4mb
GWF		84.01	41	iPc	02 29.00	-0.1
ILT		84.09	338	P	02 30.00	1.0
DIX		84.19	44	eP+	02 30.70	0.4
TNS		84.41	40	ePc	02 31.40	0.4
BUH		84.45	42	ePc	02 31.00	-0.3
NB2		84.57	29	P	02 31.20	-0.4
		1.6s	2240.00nm			7.0mb
MMK		84.58	44	eP+	02 33.00	0.8
ZUL		84.70	43	eP+	02 32.30	-0.2
SLE		84.73	43	eP+	02 32.20	-0.5
HAM		84.91	37	iPc	02 34.60	1.3
STU		85.07	42	iPc+	02 34.00	-0.3
		1.3s	577.00nm			6.6mb
	Z	20s	199.00um			7.5Msz
LLS		85.19	43	eP+	02 35.50	0.3
TMA		85.20	44	eP+	02 35.10	-0.2
ADK		85.40	322	iPc	02 37.30	1.4
CVF		85.67	48	iPc	02 37.30	-0.2
		1.5s	653.00nm			6.6mb
HFS		85.92	30	iP	02 22.60	-15.7X
	Z	30s	8.50um			6.0MszX
COP		86.02	34	iPd	02 39.00	0.2
		1.2s	1130.00nm			7.0mb
				iS	13 07.00	
GRFO		86.25	40	P	02 40.20	0.0
GRF		86.25	40	iPc	02 40.60	0.4
	Z	21s	336.00um			7.7Msz
				e	02 46.30	
				eSKS	13 27.00	

				e	14 22.00	
				e	14 31.00	
MOX		86.35	39	iPc	02 41.00	0.3
		1.7s	1460.00nm			6.9mb
	Z	22s	186.00um			7.4Msz
	N	22s	112.00um			
	E	22s	108.00um			
				ePP	06 15.00	
				eSKS	13 10.00	
				ePS	14 25.00	
				iSS	19 20.00	
				eSSS	22 50.00	
				eP'P'	28 58.00	
GAP		86.50	43	eP	02 42.30	0.8
		1.5s	900.00nm			6.8mb
FUR		86.53	42	eP	02 42.00	0.4
		1.9s	2150.00nm			7.1mb
	Z	22s	179.00um			7.4Msz
				eS	13 37.00	
OGA		86.56	43	iPc	02 42.40	0.4
HOF		86.57	40	iPc	02 41.50	-0.3
		1.8s	1450.00nm			6.9mb
				eS	13 04.00	
BRN		87.03	38	iPc	02 44.80	0.9
KIR		87.07	22	iP	02 43.40	-0.5
CLL		87.11	39	iPc	02 44.60	0.3
		1.7s	1400.00nm			6.9mb
				iS	13 34.00	
				P'P'	28 53.00	
FIR		87.22	46	eP	02 44.00	-0.9
				eS	12 45.00	
WET		87.41	41	iPc	02 46.20	0.3
				eS	13 43.00	
BHG		87.67	42	iPc	02 47.20	0.1
		1.6s	1790.00nm			7.1mb
BRG		87.77	39	iPc	02 47.80	0.3
		1.6s	720.00nm			6.7mb
				i	02 57.10	
				eSKS	13 21.10	
KHC		87.87	41	iPc	02 48.40	0.4
		1.5s	490.00nm			6.5mb
	Z	22s	93.10um			7.2Msz
	N	22s	90.70um			
	E	21s	25.20um			
				PP	06 16.90	
				S	13 38.00	
UPP		87.91	30	iP	02 46.30	-1.6
		1.3s	1400.00nm			7.0mb
				i	02 52.70	
				i	03 04.00	
				iS	13 17.00	
KBA		88.09	43	ePc	02 49.30	-0.1
		1.7s	1280.00nm			6.9mb
				i	02 56.20	
				ipP	03 00.20	34kmX
				iPP	06 28.80	
				iS	13 25.80	
PRU		88.32	40	Pc	02 50.50	0.4
		1.8s	922.00nm			6.8mb
	Z	23s	240.00um			7.5MszX
				PP	06 30.00	
				e	12 38.00	
				S	13 42.00	
				iPS	14 48.00	
				iSS	19 40.00	
				e	28 32.00	
KMR		88.43	42	iP+	02 50.80	0.1
TRI		88.64	44	iPd	02 48.60	-3.1X
				iPcP	02 57.40	
				iPP	05 45.00	
				e	06 13.90	
				i	07 04.00	
				eS	12 31.00	
				e	13 26.60	
				iSP	13 38.00	
				e	13 46.40	
				iSPP	14 10.00	
				iSS	18 10.00	
				iSSS	21 40.00	
KEV		88.72	19	iPc+	02 51.00	-0.7
		1.0s	66.00nm			5.9mb
				i	02 58.80	
				ePP	06 27.00	
				eS	13 40.00	
KHE		88.75	6	iPc	02 52.00	0.3
		2.0s	660.00nm			6.6mb
	Z	18s	210.00um			7.6Msz

TABLE 4-78

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03d  03h
                iPP   06 18.00
                iS    13 40.00
CEY   89.08  44 ePc   02 54.00   0.1
LJU   89.10  44 iPc   02 54.20   0.2
                eS    13 29.50
                eSS   19 00.00
KSP   89.23  39 iPc   02 54.70   0.2
      1.7s  863.00nm          6.8mb
                eS    13 28.50
                e     13 50.50
                e     15 15.50
SOD   89.48  21 iP    02 54.40  -0.9
VKA   89.82  41 ePc   02 57.60   0.3
                epP   03 08.40  34kmX
                i     03 15.80
                ePP   06 36.50
                i     06 48.80
                SKKS  13 40.60
ZST   90.35  41 iP    02 58.90  -0.8
    Z  23s  268.00um          7.6MszX
                i     03 05.30
                i     03 15.90
                i(PP) 06 42.40
AFI   90.74 256 e(P)  03 08.00   5.8X
                S     13 56.00
                eSS   19 40.00
                eSSS  23 20.00
SUF   90.99  26 iP    03 02.20  -0.2
      1.1s  130.00nm          6.3mb
NUR   91.09  28 iP    03 02.70  -0.1
      1.3s   63.60nm          5.9mb
                i     03 07.90
                iPP   06 51.00
                eSKS  12 40.00
KJF   91.09  24 iPc+  03 03.00   0.2
      1.2s  127.00nm          6.2mb
                i     03 12.00
                iPP   06 08.00
                eSKS  13 04.00
                eS    13 56.00
SRO   91.23  41 eP    03 01.60  -2.2
    Z  24s  133.00um          7.3MszX
                ePP   06 50.00
                e(S)  13 55.00
KRA   91.69  39 iPc   03 06.20   0.4
      1.3s  672.00nm          6.9mb
    Z  26s  173.00um          7.4MszX
    N  26s  108.00um
                i     03 12.20
                i     03 17.00
                i     03 33.00
                e     06 48.00
                e     13 32.00
APA   91.75  20 P     03 05.30  -0.5
BUD   91.78  42 iPKPc 03 07.00   0.7
      1.4s   80.00nm          6.0mb
SPC   92.11  40 eP    03 08.10   0.0
                i     03 19.30
                e(PP) 06 57.60
PSZ   92.23  41 iP    03 09.20   0.7
JOS   92.49  40 iPc   03 10.00   0.4
      1.4s   90.00nm          6.0mb
UZH   93.57  40 iPc   03 16.50   2.0
                ePS   15 45.00
                e     20 50.00
TIM   93.70  43 iPc   03 16.00   0.8
PUL   93.99  28 ePc   03 16.00  -0.2
                iSKS  13 53.00
                e     21 00.00
LVV   94.28  38 iPc   03 17.80   0.0
      9.0s 9500.00nm          7.2mb X
                iPP   07 04.00
                iPS   15 53.00
                iSS   20 49.00
SSR   94.30  44 iP    03 19.00   1.0
BMR   94.63  41 ePd   03 27.00   7.6X
OHP   94.68  47 eP    03 17.20  -2.7
                iPcP  03 26.90
                iPP   07 28.20
                iS    13 58.00
SKO   94.91  46 iPc   03 21.00   0.1
                iPcP  03 27.40
                iPP   07 12.50
                iSKS  13 36.50
                iS    14 06.00
CLO   94.96  43 iPd   03 31.50  10.5X
SRE   95.36  43 eP    03 31.00   8.1X
VAY   95.91  47 eP    03 26.20   0.8
COZ   95.92  43 iPd   03 15.50 -10.2X
VTS   95.98  45 iP    03 27.00   1.3
CMP   96.40  42 ePc   03 33.00   5.3X
MLR   96.93  42 ePc   03 30.00  -0.2
CVO   96.97  42 iPd   03 31.50   1.3
SEY   97.04 338 iPc   03 31.00   0.9
      2.4s  610.00nm          6.7mb
                ePP   07 28.00
                ePS   16 23.00
                e     21 40.00
TIK   97.08 350 P     03 29.50  -0.7
PVL   97.18  44 iPd   03 32.00   0.8
BAC   97.19  41 eP    03 30.00  -1.1
VRI   97.32  41 eP    03 30.00  -1.7
BUC1  97.37  43 eP    03 36.00   4.0X
CLI   97.44  41 eP    03 30.00  -2.3
ISR   97.45  42 eP    03 30.00  -2.4
ATH   97.74  50 iPc   03 36.00   2.3
                iPP   07 37.00
                iPS   16 42.00
PPE   97.77  41 eP    03 40.00   6.2X
KDZ   97.80  46 iP    03 27.00  -7.0X
DIM   97.83  45 eP    03 42.00   7.9X
KIS   98.28  40 eP    03 36.50   0.5
                iSKS  14 17.00
                iS    14 54.00
                iPS   16 33.00
SPA   98.64 180 ePc   03 37.40   0.1
      1.3s  105.00nm          6.2mb
    Z  20s   13.50um          6.4Msz
EZN   99.09  47 eP    03 41.00   1.2
OBN   99.12  30 iPd   03 39.00  -0.6
      2.0s 1200.00nm          7.1mb
    Z  20s  147.00um          7.5Msz
    N  20s   53.00um
    E  20s  105.00um
                iPP   07 48.00
                eSKS  14 12.00
                iPS   16 42.00
                eSSS  25 40.00
MGD   99.29 336 P     03 41.40   1.0
MOS   99.33  30 eP    03 40.00  -0.6
      2.0s  550.00nm          6.7mb
                iPP   07 49.00
                eSKS  15 20.00
PET   99.35 327 P     03 45.00   4.3X
NVL   99.80 160 eP    03 49.00   6.6X
    Z  20s   43.00um          7.0Msz
    N  20s   11.00um
    E  20s   23.00um
                epP   03 58.00  28kmX
EDC  100.02  46 ePdiff03 45.00   0.9
CTT  100.14  46 iPdiff03 48.60   4.0X
IZM  100.25  48 ePdiff03 52.00   6.8X
IST  100.58  45 e(Pdif04 04.00  17.5X
ISK  100.62  45 ePdiff03 51.00   4.3X
BCAO 100.84  84 (Pdiff03 48.00  -0.4
BNG  100.85  84 iPdiff03 48.60   0.2
      1.0s   15.00nm          5.5mb
CIN  101.14  49 iPdiff03 52.50   3.4X
                i     08 11.80
YER  101.44  49 ePdiff03 57.00   6.4X
GPA  101.79  46 ePdiff03 54.00   2.0
NRI  101.85   3 iPdiff03 52.00   0.5
      2.2s  190.00nm          6.3mb
    Z  26s  200.00um          7.5MszX
    N  26s  290.00um
    E  26s  160.00um
                iPP   08 05.00
                eSS   22 30.00
SKR  101.88 326 ePdiff03 56.00   3.9X
SIM  102.46  40 ePdiff04 00.00   5.2X
                ePPP  10 24.00
                eSKS  14 34.00
                eS    15 39.00
                ePS   17 20.00
BCk  103.04  48 ePdiff04 02.00   4.3X
ANN  104.51  39 ePdiff04 08.00   4.1X
WEL  104.76 230 ePdiff04 18.00  12.9X
                PP    08 35.00
                e     14 20.00
                SKS   14 53.00
                SS    23 00.00
YAK  105.02 345 iPdiff04 05.40  -0.4
CER  105.10 122 e(Pdif04 04.00  -2.9X
SOC  106.66  40 ePdiff04 21.00   7.5X
                ePS   18 00.00
ARU  107.86  21 ePdiff04 21.50   2.9X
      2.4s  150.00nm          6.7mb
                ePP   08 45.00
                eSKS  14 51.00
                eSS   23 52.00
SVE  108.25  20 ePdiff04 28.10   7.8X
      4.0s  466.00nm          7.0mb X
PYA  108.49  38 iPdiff04 26.00   4.3X
                iPP   08 55.00
JER  108.73  52 ePdiff04 24.00   0.9
KUR  109.46 324 ePdiff04 39.00  13.1X
                eSS   24 18.00
PKR  109.77 119 e(Pdif04 41.00  13.1X
KIM  109.82 117 ePdiff04 44.20  16.0X
                e     08 42.00
BKR  110.01  40 iPdiff04 31.40   2.7X
      2.0s 2300.00nm
                iPS   18 32.00
                iPPS  19 42.00
SWZ  110.32 116 ePdiff04 43.50  13.1X
GRO  110.45  37 ePdiff04 36.00   5.6X
    Z  24s  126.00um          7.4MszX
    N  24s   98.00um
    E  24s  155.00um
                iSKS  15 30.00
                iPS   18 37.00
LEN  110.74  40 ePdiff04 38.00   6.0X
MTA  110.84  39 ePdiff04 35.00   2.9X
    Z  20s   50.00um          7.1Msz
    N  20s   42.00um
    E  20s   40.00um
                ePP   09 13.00
                eSKS  15 33.00
GRM  111.19 122 e(Pdif04 45.00  11.0X
    Z  20s   52.00um          7.1Msz
YSS  111.19 328 iPdiff04 40.00   6.4X
                iPP   09 20.00
                eSP   18 38.00
VIR  111.67 117 e(Pdif05 00.00  23.6X
MAK  111.69  37 ePdiff04 44.50   8.6X
      7.0s 2900.00nm
KSR  111.75 114 e(Pdif04 49.60  12.8X
                e     08 40.70
BOD  112.19 350 ePdiff04 37.50  -0.3
      1.0s   10.00nm
                ePP   09 16.30
SEK  112.34 117 e(Pdif04 29.00 -10.4X
                e     08 15.00
KRV  112.38  39 ePdiff04 45.00   5.9X
                iPP   09 30.00
BPI  112.76 115 e(Pdif04 54.00  12.6X
                e     08 35.00
PRE  112.91 114 e(Pdif04 41.00  -1.0
      1.5s  480.00nm
SLR  113.00 114 ePdiff04 54.00  11.6X
    Z  18s  172.00um          7.7Msz
                S     17 55.50
GRS  113.03  40 Pdiff 04 49.00   6.8X
BUL  113.32 108 ePdiff04 57.00  13.1X
BUL  113.32 108 ePKP  08 43.00   5.4X
    Z  19s   68.10um          7.3Msz
    N  19s   11.80um
    E  19s    6.94um
                iPKKP 19 31.00
TAB  113.82  42 ePdiff04 48.00   2.3X
                e     09 37.00
                e     19 35.00
KOU  114.08 251 iPKPd 08 53.30  14.4X
TUP  114.18 345 ePdiff04 52.90   6.2X
      1.8s   30.00nm
KRI  114.18 105 iPKP  08 44.00   4.6X
                iPKKP 19 28.00
DRV  115.16 198 ePKP  08 47.00   7.5X
MTD  116.06 104 iPKP  08 48.00   5.1X
                iPKKP 19 18.00
TET  117.96 104 ePKP  08 54.00   7.7X
                i     10 09.00
                i     19 18.00
IR7  117.98  42 (PKP) 08 36.00 -10.1X
IRK  118.94 355 ePdiff05 12.00   4.0X
                eSKS  15 52.00
                eSP   19 46.00
                eSS   26 30.00
                eSSS  38 48.00
VLA  119.36 331 ePKP  08 48.00  -0.2
                iPP   10 13.00
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03d 03h

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VLA   119.36 331 iPdiff05 15.00   4.9X
SEM   119.39  12 ePdiff05 23.20  13.2X
NAI   119.79  86 iPKPc 08 53.20   3.0X
       1.0s    20.00nm
DDR   120.31 321 ePKP  08 56.00   5.6X
OYM   120.64 320 ePKP  08 56.50   5.5X
ZAK   120.90 355 ePKP  08 50.40  -0.5
                 ePP   10 22.00
                 eSKS  16 04.00
                 eSS   26 45.00
ZAK   120.90 355 ePdiff05 21.50   4.8X
       2.0s    10.00nm
VAN   121.17  35 ePdiff05 19.00   0.8
                 eSKS  16 00.00
                 eSSS  31 30.00
ASH   121.31  35 ePKP  08 53.00   0.9
                 ePP   10 25.00
                 ePPP  13 07.00
                 eSP   20 11.00
                 eSPP  21 30.00
                 iPPS  21 45.50
ARO   122.66  70 ePKP  09 02.00   6.6X
SHI   122.80  46 e(PKP)08 50.00  -5.5X
NPA   123.41 102 ePKP  09 03.00   6.2X
                 e     10 42.00
KHI   124.08  38 e(PKP)08 56.00  -1.9
TAS   124.15  25 ePKP  08 58.00   0.4
                 ePP   10 44.80
                 eSKS  16 00.00
                 eSP   20 35.00
TAS   124.15  25 ePdiff05 34.00   2.5X
COO   124.38 239 ePKP  08 58.00  -0.4
SAM   124.49  28 PKP   09 01.00   2.7X
SAM   124.49  28 ePdiff05 40.00   6.9X
FRU   124.85  20 ePKP  09 02.00   3.1X
      Z  22s    117.00um          7.5Msz
      N  20s     80.00um
      E  22s    105.00um
                 esPKP 09 16.00
                 iPP   10 47.00
                 iPPP  13 30.00
                 eSP   20 38.00
                 i     28 00.00
                 eSS   32 18.00
FRU   124.85  20 ePdiff05 46.00  11.4X
RAB   124.89 271 ePKP  08 58.00  -1.7
AAA   125.19  18 iPKPc 09 04.00   4.4X
                 isPKP 09 18.00
                 iPP   10 50.00
SHK   125.24 324 ePKP  09 00.50   0.7
TLG   125.33  17 iPKP  08 59.80   0.0
                 iPP   10 55.00
TLG   125.33  17 ePdiff05 42.50   5.7X
WAM   125.48 232 ePKP  09 04.60   4.4X
CAN   125.63 233 ePKP  09 03.40   2.7X
ANR   125.86  23 ePKP  09 02.40   1.5
                 eSKS  16 03.40
ANR   125.86  23 ePdiff05 58.60  19.5X
       6.0s   600.00nm
KVG   126.02 273 ePKP  09 01.00  -1.0
DSH   126.20  27 PKP   09 01.50  -0.2
DSH   126.20  27 ePdiff05 46.00   5.2X
PRZ   126.34  17 ePKP  09 02.50   0.5
       3.0s  1000.00nm
                 ePP   11 03.00
                 ePPP  13 41.50
                 eSKS  16 02.50
YOU   126.41 234 ePKP  09 05.50   3.3X
GAR   126.52  26 ePKP  09 00.10  -2.3
                 iSPP  22 30.40
                 iSSS  32 40.40
NRN   126.56  19 PKP   09 02.60  -0.1
KUL   127.18  27 ePKP  09 03.30  -0.3
                 iPP   11 01.80
KUL   127.18  27 ePdiff05 47.80   2.7X
GUA   127.42 294 PKP   09 09.00   4.4X
GUMO  127.44 294 PKP   09 11.60   7.0X
TOO   127.61 229 ePKP  09 03.00  -1.4
KHO   128.31  26 ePKP  09 04.40  -1.5
      Z  18s      6.40um          6.3Msz
      N  18s      9.00um
      E  18s      6.40um
                 ePP   11 16.00
                 eSP   21 12.00
KSH   128.32  21 ePKP  09 07.00   1.2
                 PP    11 14.00
HHC   128.87 346 PKPc  09 07.60   0.8
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                 PP    11 32.00
                 PKS   12 40.00
BTO   129.47 347 ePKP  09 06.00  -1.9
                 PKS   12 42.00
KBL   129.57  30 e(PKP)09 01.00  -7.5X
LAT   130.29 269 ePKP  09 09.00  -1.1
PMG   130.35 265 e(PKP)09 09.00  -1.2
      Z  18s     40.50um          7.2Msz
CTA   130.99 251 iPKP  09 11.20  -0.1
AVY   131.37 107 ePKPc 09 13.30   1.1
GTA   132.06 357 ePKP  09 07.90  -5.0X
                 PKS   12 44.00
MVI   132.09 317 ePKP  09 14.00   0.9
                 e     12 50.00
STK   132.56 234 ePKP  09 12.00  -1.9
ADE   133.67 229 e(PKP)09 21.00   5.0X
SSE   134.07 331 PKP-  08 59.00 -17.8X
      Z  18s     62.90um          7.4Msz
      N  18s     78.70um
      E  18s     54.10um
                 PP    11 52.00
                 PKS   12 48.00
                 PPP   14 44.00
                 SKS   15 58.00
                 PS    22 16.00
                 PPS   23 58.00
                 SS    29 56.00
                 SSP   30 42.00
                 SSS   35 48.00
TZZ   135.85 271 ePKP  09 20.00  -0.8
JAY   135.96 275 iPKPd 09 21.00   0.1
ISQ   137.14 249 ePKP  09 14.00  -8.9X
WHN   137.52 337 PKP   09 20.30  -3.0X
                 PP    12 10.00
                 PKS   12 52.00
ANP   138.63 325 ePKP+ 09 12.00 -13.7X
CD2   140.07 351 ePKP  09 25.00  -3.0X
                 ePP   12 24.50
                 SKS   16 32.00
OZH   140.41 328 PKPd  09 26.00  -2.7X
                 PP    12 38.00
                 SKS   16 27.00
LSA   141.43   8 ePKP  09 29.70  -1.4
                 PP    12 43.70
ASPA  141.58 243 ePKP  09 25.00  -6.0X
KKN   142.04  17 iPKPc 09 26.90  -5.0X
       1.2s     89.00nm
WB2   142.08 249 ePKP  09 25.80  -6.1X
                 i     09 37.10
                 i     09 45.60
                 ePP   14 17.20
                 e     20 06.30
WRA   142.09 249 PKPd  09 26.30  -5.6X
       1.1s     70.70nm
DMN   142.16  17 iPKPc 09 27.20  -5.0X
       1.1s     94.00nm
PKI   142.28  17 iPKPc 09 27.40  -5.1X
       1.2s     80.00nm
GYA   143.78 345 PKP   09 31.00  -3.8X
CVP   143.99 317 iPKPd 09 34.00  -1.1
PIP   144.34 319 iPKPd 09 25.50 -10.2X
GZH   144.52 333 PKPc  09 35.00  -0.9
                 i     09 39.50
                 PP    12 56.00
POO   144.68  40 iPKPc 09 34.20  -2.2
       1.6s   1000.00nm
HKC   144.82 331 iPKP  09 37.00   0.5
                 iS    12 58.00
CNP   145.25 307 iPKPd 09 40.00   2.6X
MCO   145.26 332 iPKP  09 37.70   0.5
BAG   145.74 317 ePKP  09 37.20  -1.2
       1.4s   1060.00nm
KMI   145.90 350 iPKPc 09 38.50  -0.1
                 PP    13 06.00
                 PKS   13 13.00
MTN   146.09 260 ePKP  09 39.00   0.2
MAN   146.60 314 ePKPc 09 42.00   2.4
QCP   146.61 314 ePKP  09 50.00  10.4X
WBN   146.88 235 iPKPd 09 39.70  -0.2
CCP   147.10 305 ePKP  09 41.00   0.6
DAV   147.36 298 ePKP  09 40.00  -0.9
       1.5s    867.00nm
PGP   147.46 312 iPKPd 09 43.00   2.0
       1.4s    448.00nm
KLG   148.22 223 iPKPc 09 44.50   2.7X
HYB   148.37  35 ePKPc 09 41.50  -0.9
       1.2s    557.00nm
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AAI   148.46 277 ePKPc 09 43.10   0.4
       0.9s     97.30nm
NWAO  149.40 215 ePKP  09 44.00   0.4
MNI   150.34 289 ePKP  09 51.90   6.4X
       1.1s    602.00nm
GBA   150.63  41 PKP   09 46.00   0.1
       0.9s     14.00nm
MUN   150.68 215 ePKP  09 45.00  -0.5
CHG   152.58 356 iPKPc 09 48.80   0.1
       1.0s     17.50nm
                 e     14 44.00
KOD   153.05  46 ePKP  09 50.40   0.6
                 ePP   13 59.00
KUPT  153.57 265 ePKP  10 07.00  16.8X
BDT   154.14 355 iPKPc 09 50.30  -0.5
       1.1s    146.00nm
KKM   155.77 307 ePKPd 09 54.40   1.1
PCT   156.34 349 ePKP  09 55.30   1.5
                 i     10 24.20
MKS   157.29 277 e(PKP)10 03.00   7.9X
TRT   164.35 272 iPKPc 10 02.50   0.0
BSI   165.81   6 ePKPd 10 20.50  16.8X
IPM   166.17 342 ePKPd 10 04.70   0.6
                 e     11 01.70
                 e     14 55.20
KGM   167.56 329 ePKPc 10 04.00  -1.1
                 e     11 18.00
TSI   167.76 352 e(PKP)10 10.00   4.8X
PSI   168.49 350 iPKPd 10 05.70   0.0
       1.0s     34.50nm
PPI   171.08 336 ePKP  10 06.30  -0.8
      S.D. = 1.0  on 370 of 512 obs.

   APR  04, 1983  02h 51m 34.38± 0.33s
    5.739 N ± 1.6km   94.740 E ± 1.4km
   DEPTH =  78.4 ±  2.9 km
   6.7mb (110 obs.)
 NORTHERN SUMATERA                (706)
      About 100 people injured and
      damage in the Banda Aceh area.
      Felt at Pinang, Malaysia.

BSI     0.62 112 iPd   51 49.00  -0.3
TSI     4.41 120 iPd   52 41.10   0.7
PSI     5.15 126 iPd   52 51.20   0.5
SNG     6.01  76 iPc+  53 03.00   0.3
      Z  22s     15.60um
      N  20s     26.60um
      E  22s     24.10um
IPM     6.37 100 iPd   53 07.00  -0.6
                 iS    54 22.40
                 i     55 01.80
                 i     55 27.70
                 i     56 10.20
                 e     57 26.20
KLM     7.37 111 iPc   53 21.20  -0.1
                 iS    54 35.20
PPI     8.35 137 iPd   53 32.50  -2.4
                 iS    03 29.00
KGM     9.32 113 ePd   53 48.20   0.0
                 i     55 06.00
                 i(S)  55 30.00
                 i     56 40.00
PCT    11.04  36 eP    54 14.30   2.8
                 e     54 15.90
BDT    12.17  20 eP    54 27.60   1.1
       0.6s    393.00nm          6.5mb
CHG    13.63  17 iPc+  54 47.80   2.1
       1.0s    194.00nm          5.5mb X
      Z  18s      5.67um
      N  18s      5.15um
      E  18s      5.33um
                 eS    02 12.00
KOD    17.68 286 iP    55 38.00   0.7
LEM    17.92 134 iPd   55 37.50  -2.6
       1.0s     80.00nm          4.9mb X
GBA    18.75 296 P     55 49.90  -0.1
HYB    19.63 308 iPd   55 59.00  -0.5
KMI    20.74  21 iPc   56 13.00   1.8
      E  12s    104.00um
                 sP    56 44.00
                 S     59 55.00
BKB    23.14 107 iPd   56 38.50   3.9X
       1.0s   1600.00nm          6.4mb
GYA    23.54  28 Pc    56 40.00   1.4
                 pP    57 04.00 114kmX
                 S     00 44.00
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TABLE 4-80

04d 02h

DMN	23.60	338	iPc	56	38.70	-0.6				pP	59	12.00	107kmX	MUN	42.72	153	iPc	59	25.50	0.0
KKN	23.70	339	iPc	56	39.00	-1.3				PP	00	20.00		KUM	42.97	47	P+	59	28.50	1.1
POO	24.02	304	iP	56	45.00	1.8				iS	04	35.00					e	01	16.00	
	1.6s	3270.00nm				6.5mb	WMQ	38.43	352	iPc	58	50.40	0.3	KLB	43.14	151	iPc	59	28.50	-0.3
LSA	24.07	352	P	56	44.00	-0.1				PP	00	24.00		KHI	43.75	315	iPd	59	34.00	0.0
			pP	57	06.40	104kmX				iS	04	36.00		NWAO	43.99	152	eP	59	35.00	-0.7
			S	00	55.40					ScS	08	54.00		WBN	44.25	137	iPc	59	37.20	-0.7
MCO	24.42	46	iP	56	48.60	1.6	BJI	39.22	26	eP	58	58.00	1.4		0.8s	290.00nm				6.2mb
GZH	24.88	44	iPc	56	52.50	1.1		E 24s	213.00um					MHI	44.35	318	iPd	59	38.20	-0.6
			pP	57	14.50	102kmX				pP	59	20.00	93kmX				e	00	03.00	
			S	01	14.00					sP	59	32.00					e	01	24.00	
HKC	24.98	47	iP	56	54.00	1.7				PP	00	35.00					eS	05	23.00	
CD2	26.43	18	iPc	57	05.20	-0.6				PPP	00	58.00		KLG	44.41	146	iPc	59	38.60	-0.6
			PPP	57	59.20					eS	04	51.00		ZAK	45.07	8	iPc	59	44.00	-0.1
			iS	01	31.50					esS	05	26.00			1.8s	1790.00nm				6.6mb
PGP	26.95	71	iPd	57	12.00	1.5				SS	08	54.00			Z 27s	137.00um				6.8MszX
	1.2s	800.00nm				6.1mb				ScS	09	50.00			N 24s	65.40um				
MKS	26.98	113	iPc	57	10.60	-0.3	KUL	39.26	328	eP	58	56.10	-1.0		E 26s	75.60um				
	1.0s	3990.00nm				6.9mb		3.8s	******nm				7.1mb X				ePcP	01	25.00	
NDI	28.22	326	iPd	57	20.50	-1.4		N 22s	168.00um								ePP	01	27.00	
	0.7s	253.00nm				6.0mb		E 22s	255.00um								iS	06	15.50	
			iS	02	01.00					iPP	00	34.80					eScS	09	28.00	
CVP	29.01	63	ePd	57	29.00	-0.1				iPPP	00	56.70		SHK	45.25	46	iPc	59	45.00	-0.9
QZH	29.79	48	iPc	57	36.50	0.5				iS	04	47.80					eS	05	10.50	
			pP	58	03.00	122kmX				iSS	07	45.80		KOC	45.39	47	P+	59	48.00	1.1
			PP	58	42.50					iSSS	08	21.30					e	06	38.00	
CGP	29.84	83	iPd	57	37.00	0.4	NRN	39.28	338	P	58	57.20	-0.4	MRT	45.72	48	P+	59	51.00	1.5
	0.5s	298.00nm				6.3mb	PRZ	39.36	341	P	59	00.00	2.0				e	01	41.00	
DAV	30.67	86	eP	57	44.50	0.6	MEK	39.58	145	iPc	58	59.30	-0.5	MTS	46.00	45	P+	59	52.80	1.1
	1.7s	4580.00nm				6.9mb	NZJ	39.89	52	P	59	03.90	1.6				S	06	36.00	
WHN	30.81	34	Pc	57	44.90	0.0				eS	05	02.00		ASH	46.05	319	P	59	53.00	1.0
			pP	58	10.00	114kmX	MVI	40.18	56	P	59	06.00	1.3		4.5s	8370.00nm				7.0mb X
XAN	31.08	23	iPc	57	46.30	-1.0	ANR	40.22	333	iPd	59	05.50	0.6				ipP	00	21.50	124kmX
			pP	58	09.00	101kmX		1.5s	4200.00nm				7.1mb				isP	00	28.00	
TATO	31.99	50	eP	57	57.00	1.7		Z 22s	230.00um				7.0Msz				ePcP	01	27.40	
ANP	32.12	50	iP+	57	59.50	2.9		N 22s	250.00um								ePP	01	47.00	
			iS	03	10.00					epP	59	31.00	111kmX	MOY	46.09	5	iPc	59	51.80	-0.3
KUPT	32.80	119	eP	58	00.00	-2.5				ePP	00	41.00			1.9s	860.00nm				6.3mb
GTA	33.83	7	iPc	58	10.70	-0.7				iPcP	01	06.70		SEM	46.15	347	iPc	59	52.40	-0.3
			PP	59	25.00					iS	05	05.60			4.8s	******nm				7.3mb X
			PcP	00	51.10					esS	05	46.60					epP	00	15.80	98kmX
			iS	03	26.50					iSS	08	05.00					ePcP	01	30.00	
			ScP	04	26.60		DSH	40.27	328	iPd	59	04.00	-1.3				iPPP	02	30.80	
			SS	05	40.00			Z 16s	52.00um				6.5MszX				eS	06	23.00	
			ScS	08	25.40					isP	59	37.50		VAN	46.21	319	P	59	53.00	-0.3
NJ2	34.54	38	iPc	58	17.80	0.4				iPP	00	38.00			4.0s	8000.00nm				7.0mb X
			pP	58	38.50	89kmX				iS	05	02.00			Z 20s	96.60um				6.7Msz
			sP	58	49.00					iSS	08	00.00					ipP	00	20.00	116kmX
			PP	59	40.00		TLG	40.39	340	iP	59	07.70	1.4				ePP	01	47.00	
			PcP	00	49.50			3.8s	******nm				7.5mb X				5	06	34.00	
			iS	03	40.00			Z 17s	77.00um				6.6MszX				eScS	09	40.00	
			ScP	04	24.40					epP	59	32.50	107kmX	OKA	46.21	46	eP+	59	54.00	0.6
SSE	35.38	41	iPc	58	25.50	1.0				iPP	00	40.50					e	01	51.00	
			PP	59	42.00					iPPP	01	12.50		SHI	46.33	306	iPd	59	54.00	-0.7
			S	03	49.00					iS	05	09.50		TKS	46.40	47	eP	59	56.00	1.2
TIY	35.68	24	iPc	58	27.00	0.0				iSS	08	02.50					e	06	40.00	
			pP	58	52.00	108kmX	AAA	40.55	340	iPc	59	09.00	1.4	CN2	46.53	31	iPc	59	54.00	-1.8
			PP	59	50.00			3.0s	29.00nm				4.6mb X				pP	00	18.00	101kmX
			S	03	52.00					iPP	00	43.00					sP	00	29.50	
QUE	35.72	316	iPd	58	28.00	0.3				ePcP	01	04.00					PP	01	43.00	
TIA	36.63	31	Pc	58	35.40	0.4				iS	05	12.00					PcS	05	19.00	
			pP	58	58.00	96kmX	MTN	40.60	117	iPc	59	06.50	-1.8				iS	06	34.00	
			sP	59	09.50		FRU	41.01	337	iPc	59	13.00	1.6				ScS	09	37.00	
			PP	00	04.00			3.0s	******nm				7.5mb	WRA	46.56	124	Pd	59	56.40	0.0
			S	04	09.00			Z 18s	120.00um				6.8Msz		0.8s	301.00nm				6.3mb
			ScP	04	32.20			N 18s	90.00um					WB2	46.57	124	iPc	59	55.40	-1.0
			PcS	04	45.40			E 18s	128.00um								eP'P'	30	30.20	
			sS	04	48.00					iS	05	20.00		JAY	46.63	99	ePd	59	55.50	-1.6
KMJ	36.82	53	P	58	37.70	1.0	FKJ	41.57	45	P+	59	17.20	1.2	HIM	46.85	46	eP	00	02.00	3.5X
			eS	04	20.00					eS	05	26.00		IRK	47.05	8	P	00	00.00	0.2
KBL	37.23	324	iPd	58	37.70	-2.6	SAM	42.03	328	eP	59	18.00	-1.8	OSA	47.37	47	eP	00	03.00	0.4
BTO	37.32	19	iPc	58	40.50	-0.3		2.9s	5000.00nm				6.8mb	OSK	47.44	47	eP	00	04.00	0.8
			pP	59	07.00	115kmX		Z 18s	81.00um				6.6Msz				PP	02	03.30	
			PP	00	11.00			N 20s	102.00um					TZZ	47.68	102	iPc	00	02.00	-3.4X
			S	04	19.50			E 17s	108.00um					ELT	47.87	353	iPc	00	05.90	-0.2
NAH	37.46	53	P+	58	44.00	1.9				ipP	59	46.50	125kmX		1.6s	2230.00nm				6.8mb
			S	04	29.60					iPP	00	59.00			N 24s	72.60um				
KSH	37.60	336	Pd	58	43.00	-0.2				iS	05	30.00					iS	06	57.00	
			sP	59	23.00		TAS	42.09	331	iPd	59	20.90	0.7	ASPA	48.11	129	iPc	00	07.70	-0.8
			PP	00	14.00			2.0s	7800.00nm				7.2mb	MDJ	49.25	33	iPc	00	18.00	1.0
			iS	04	21.00			Z 21s	120.00um				6.8Msz				pP	00	41.00	95kmX
NGO	37.86	53	P	58	47.70	2.2				ipP	59	47.00	113kmX				PP	02	15.00	
			S	04	40.40					ePP	01	03.00					PPP	03	12.00	
KHO	38.03	329	eP	58	46.70	-0.3				iS	05	32.00					ScP	05	25.00	
	4.0s	******nm				7.1mb X	KAG	42.23	48	eP+	59	24.00	2.6				PcS	05	35.00	
			epP	59	11.80	105kmX	NGS	42.32	46	P+	59	23.80	1.6				iS	07	18.00	
HHC	38.07	21	iPc	58	47.40	0.2				eS	06	07.00					ScS	09	54.00	

04d 03h

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VLA     49.58  36 iPd    00 10.00  -0.5
      Z  16s   157.00um          7.1MszX
      N  16s    74.00um
      E  16s    57.00um
                iPP    02 19.00
                iS     07 19.00
                isS    07 59.00
                iScS   10 03.00
TEH     49.73 313 ePc    00 22.00   1.0
NVS     49.88 351 iPc    00 20.00  -1.5
        1.2s  *******nm          8.0mb X
                iS     07 17.30
GUMO    49.95  77 eP+    00 21.50  -1.2
        1.0s  1460.00nm          7.0mb
PJG     49.95  77 eP     00 21.20  -1.5
GUA     49.99  77 eP+    00 21.50  -1.5
        1.0s  1490.00nm          7.0mb
                pP     00 25.70  14kmX
                eS     07 26.50
MAT     50.17  46 iPc    00 23.40  -0.8
        1.5s  1810.00nm          6.9mb
                eS     07 28.00
OSH     50.26  49 P      00 24.20  -0.6
OYM     50.43  48 eP     00 25.80  -0.4
DDR     50.65  47 eP     00 25.30  -2.5
KYS     51.01  49 eP     00 28.10  -2.4
ATA     51.21 280 eP     00 33.50   1.2
ISQ     51.25 122 iPd    00 32.20  -0.4
MKL     51.28 280 eP     00 35.50   2.7
TSK     51.41  47 eP     00 31.80  -1.7
TDD     51.52 280 eP     00 36.50   1.8
ARO     51.57 280 iPd    00 36.80   1.7
                i      07 55.90
SGH     51.77 280 eP     00 38.50   1.8
DAF     51.88 280 eP     00 39.70   2.3
KSU     51.96 280 eP     00 40.50   2.5
MDG     52.12 101 eP     00 37.00  -2.2
AVY     52.39 241 ePc    00 42.20   0.8
YAM     52.46  45 P+     00 41.70   0.3
TUP     52.64  18 iPc    00 41.90  -0.5
        1.4s  1040.00nm          6.7mb
AKI     52.95  43 eP     00 46.00   1.0
                e      08 16.00
MOM     53.16  97 eP     00 45.00  -1.9
ISN     53.21  45 eP     00 46.00  -0.9
LAT     53.59 103 iPd    00 49.00  -1.0
BHD     54.12 307 ePd    00 56.00   2.4
                e      03 23.50
                eS     08 22.00
                eSS    12 13.00
                eSSS   14 44.00
BOD     54.15  13 iPc    00 52.40  -1.1
        1.0s  1250.00nm          6.9mb
MIY     54.21  44 P+     00 56.70   2.5
                S      08 26.80
PMG     54.36 106 iPc+   00 54.10  -1.6
HAK     54.37  41 eP     00 55.00  -0.4
                e      08 31.00
TAB     54.39 313 eP     00 55.00  -0.8
                i      00 57.80
SUT     54.50  48 P      00 56.40   0.1
                S      08 32.50
GRS     54.97 315 P      01 00.00   0.0
LMG     55.19 105 iPd    01 00.90  -1.1
                e      08 35.00
SAP     55.34  48 eP     01 02.00  -0.3
                eS     08 43.00
KRV     55.45 316 iPd    01 01.00  -2.3
                ePcP   02 02.00
                S      08 34.00
AAE     55.56 277 eP     01 07.70   2.8
MAK     55.78 319 iPc    01 06.00   0.5
        3.6s  *******nm          7.3mb X
      Z  24s    64.00um          6.6MszX
      N  24s    39.00um
      E  18s    14.00um
                ePP    03 05.40
                iS     08 33.00
URA     55.87  42 eP     01 07.00   0.8
                eS     08 53.00
RMJ     55.96  40 P      01 07.40   0.6
                eS     08 51.00
MSL     56.11 310 ePd    01 06.00  -2.1
                iPcP   02 09.50
                iPPP   04 24.00
                iPcS   06 07.50
                iS     08 42.00
                iPS    09 02.50
                iScS   10 47.00
                iSS    12 27.00
ASA     56.34  48 P+     01 10.20   0.6
                e      08 54.00
OBI     56.50  41 eP     01 11.00   0.3
                e      09 00.00
KVG     56.59  97 eP     01 10.00  -1.8
WAK     56.70  38 eP     01 13.00   0.9
                eS     09 03.00
CTA     56.76 118 iPc+   01 11.70  -1.3
        1.2s   844.00nm          6.7mb
                iS     08 55.00
MTA     56.95 317 iPc    01 14.00   0.1
      Z  25s    25.00um          6.2MszX
      N  25s    30.00um
      E  25s    24.00um
                epP    01 38.00  97kmX
                iS     09 00.00
                eScS   10 56.00
GRO     57.07 319 P      01 14.00  -0.8
LEN     57.22 315 P      01 19.00   2.9
SVE     57.58 339 iPc    01 17.00  -1.1
        9.0s  8500.00nm          6.9mb X
      Z  24s   130.00um          7.0MszX
      N  24s    59.00um
      E  24s   127.00um
                iS     09 07.00
                iScS   10 56.00
                iSS    13 02.00
BKR     57.84 316 iP     01 20.00  -0.4
        5.0s  8600.00nm          7.1mb X
                epP    01 47.00 111kmX
                ePPP   04 56.00
                iS     09 12.00
ADE     57.89 138 iPc    01 20.50  -0.2
        1.0s   760.00nm          6.8mb
YSS     58.11  37 iPc    01 21.80  -0.2
      Z  19s    50.40um          6.7Msz
      N  18s    32.00um
      E  18s    40.00um
                epP    01 46.00  98kmX
                ePcP   02 13.20
                iPP    03 35.00
                iS     09 17.00
                eSS    13 06.00
RAB     58.19  98 iPc+   01 20.00  -3.1X
STK     58.22 133 iPc    01 21.00  -1.1
NEM     58.24  42 eP     01 22.00  -0.9
                eS     09 20.00
NAI     58.27 265 iPc    01 26.30   2.4
        1.0s   290.00nm          6.4mb
NPA     58.74 249 iP     01 28.00   1.1
                e      01 45.00
                i(PP)  04 10.00
                i      06 10.00
                eS     09 30.00
PYA     59.08 319 iPc    01 27.00  -1.9
        1.0s  1800.00nm          7.2mb
                ipP    01 56.00 120kmX
                iPPP   05 06.00
                iS     09 20.00
                eSPP   09 51.00
                iScS   11 10.00
KUR     60.52  40 iPc    01 39.00   0.5
        1.0s  1980.00nm          7.2mb
                ePcP   02 24.00
                ePPP   05 26.00
                iS     09 46.00
SOC     61.13 317 iPc    01 41.00  -1.8
        2.0s  2500.00nm          7.0mb
                ipP    02 07.00 105kmX
                eSSS   16 40.00
CMS     61.16 131 eP     01 42.00  -1.2
JER     61.21 303 iPc    01 44.50   0.9
                eS     10 24.00
BFD     61.70 138 eP     01 46.00  -0.8
PAA     61.81 100 eP     01 45.00  -2.9
YAK     61.82  18 iPc    01 44.50  -2.7
        1.0s  3040.00nm          7.4mb
                iS     09 58.40
                iSPP   10 26.40
                iScS   11 20.40
KVT     62.88 313 iP     01 53.20  -1.4
ANN     63.22 318 iPc    01 53.00  -3.6X
      Z  22s    35.00um          6.5Msz
      N  22s    41.00um
      E  22s    43.00um
                epP    02 23.00 123kmX
                iS     10 15.00
                eScS   11 37.00
NRI     63.72 357 iPc    01 57.30  -2.2
        1.0s   240.00nm          6.1mb
                epP    02 23.00 103kmX
                iS     10 18.00
                eSS    14 31.00
                eSSS   17 27.00
TOO     63.90 137 iPc+   02 01.80   0.5
HLW     64.13 300 iP+    02 03.00   0.0
                eS     10 37.00
CAN     65.28 133 iPc    02 10.00  -0.3
                ePKKP  30 47.60
SIM     65.38 317 iPc    02 10.00  -0.7
      Z  28s   104.00um          6.9MszX
      N  30s    66.00um
      E  28s    78.00um
                eS     10 44.00
COO     65.47 127 iPc    02 12.10   0.5
BCK     66.88 308 iPc    02 12.80  -2.7
KDE     66.29 313 iP     02 14.90  -1.8
MTD     66.30 249 iPc    02 17.00  -0.2
                ipP    02 36.00  72kmX
                iS     10 58.00
ELL     66.48 308 iPc    02 17.20  -0.9
ALT     66.78 310 iPc    02 18.90  -1.0
GPA     66.89 311 iP     02 19.00  -1.5
MOS     67.20 329 iPc    02 21.00  -1.1
        1.7s  9100.00nm          7.4mb
      Z  28s   104.00um          6.9MszX
      N  23s    87.00um
      E  23s    71.00um
                iPcP   02 49.00
                iPPP   06 29.00
                iS     11 01.00
                eSP    11 30.00
                iScS   12 09.00
                eSS    15 28.00
OBN     67.50 328 iPc    02 23.00  -0.9
        1.0s  2900.00nm          7.2mb
      Z  22s    87.00um          6.9Msz
      N  24s    65.00um
      E  20s    40.00um
                ipP    02 45.00  85kmX
                iPcP   02 52.00
                ePP    06 30.00
                iS     11 02.00
                eSPP   11 42.00
                eScS   12 10.00
YLV     67.65 312 iP     02 24.30  -1.0
SKR     67.66  37 iPc    02 24.40  -0.7
        0.8s   840.00nm          6.7mb
      Z  18s    53.80um          6.8Msz
      N  22s    28.80um
      E  16s    24.80um
                iPcP   02 50.80
                esP    02 57.20
                iPP    04 57.20
                iS     11 15.00
                eSPP   11 42.40
YER     67.83 308 iPc    02 24.90  -1.6
ISK     67.98 312 iP     02 26.00  -1.3
IST     68.03 312 iPc    02 26.00  -1.6
                iS     11 12.00
CIN     68.06 308 iPd    02 27.20  -0.7
                i      02 48.50
KRI     68.14 249 iPc    02 28.00  -0.9
                ipP    02 47.00  71kmX
                eS     11 22.00
CNG     68.41 239 iP     02 30.00  -0.2
                i      02 51.00
                e(PP)  04 55.00
                iS     11 27.00
                e(SS)  15 03.00
CTT     68.47 312 iP     02 28.30  -2.0
MGD     68.63  27 P      02 29.20  -1.8
EDC     68.73 311 ePc    02 31.10  -0.9
IZM     68.84 309 iPc    02 32.10  -0.7
JOZ     68.86 238 iPd    02 21.90 -11.1X
DMK     69.10 313 iPd    02 32.80  -1.4
TIK     69.19  11 P      02 32.00  -2.2
KIS     69.47 318 iPd    02 35.50  -0.8
        2.0s  3000.00nm          6.9mb
      Z  25s    50.00um          6.7MszX
      N  25s    25.00um
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     E  25s    60.00um
                iPcP  03 06.00
                iPPP  06 56.00
                iS    11 32.00
CFR    69.52 316 iPc   02 36.00  -0.7
BUL    69.86 246 iPc   02 40.00   0.7
       0.7s   259.00nm          6.3mb
     Z  18s    30.90um          6.6Msz
     N  18s    27.50um
     E  18s    22.70um
                ipP   02 59.00  71kmX
                iS    11 44.00
PET    69.91  35 P     02 38.00  -0.8
PPE    70.12 317 ePc   02 39.00  -1.3
BIR    70.12 317 eP    02 39.00  -1.3
BRD    70.35 316 eP    02 43.00   1.2
IAS    70.37 318 eP    02 41.00  -0.8
CLI    70.42 317 iPc   02 41.50  -0.7
SEY    70.60  24 iPc   02 42.30  -0.7
       1.4s  1180.00nm          6.6mb
     Z  22s    44.00um          6.7Msz
     N  20s    44.50um
     E  23s    44.50um
                iPcP  03 02.80
                ipP   03 05.30  88kmX
                iPP   05 15.30
                iPPP  07 09.30
                iS    11 45.30
                iScS  12 31.30
ISR    70.62 316 iP    02 44.50   1.0
VRI    70.65 317 iPc   02 43.00  -0.6
BAC    70.68 317 eP    02 42.00  -1.7
DIM    70.73 312 eP    02 43.00  -1.1
CGN    70.81 315 ePd   02 44.50  -0.1
BUC1   70.83 315 eP    02 43.50  -1.1
KDZ    70.83 312 iPc   02 44.00  -0.8
CVO    71.02 316 iPc   02 45.00  -0.8
MLR    71.11 316 iPc   02 46.00  -0.5
EVA    71.13 240 iPc   02 47.50   0.4
                i     14 49.70
PVL    71.22 314 iPd   02 47.00  -0.1
ATH    71.54 308 iPc   02 48.00  -1.1
                iPP   05 40.00
                iPPP  07 20.00
                iS    11 58.00
SLR    71.60 241 iPc+  02 50.00   0.1
       0.9s   975.00nm          6.7mb
     Z  18s   330.00um          7.6Msz
                i     03 12.50
PRE    71.69 241 iPc   02 50.40   0.0
       0.8s   615.00nm          6.6mb
CMP    71.69 316 iPc   02 48.00  -1.9
MIR    72.12 181 iP    02 52.00   0.2
       3.0s   260.00nm          5.6mb X
                iPcP  03 12.00
                ipP   03 21.00 115kmX
                ePPP  07 18.00
                iS    12 10.00
                eSS   16 42.00
DRA    72.14 315 eP    02 52.00  -0.5
COZ    72.19 316 iPc   02 51.00  -2.0
PUL    72.36 331 P     02 52.00  -1.4
THE    72.47 311 Pc    02 53.50  -1.0
                S     11 28.00
VTS    72.56 313 iP    02 54.00  -1.0
KSR    72.84 241 iPc   02 57.20   0.0
                i     03 11.00
VAY    72.85 311 iPc   02 55.20  -1.6
                i     03 15.00
SRE    72.87 315 eP    02 57.00   0.2
SEK    72.89 238 iPc   02 57.60   0.2
KOU    73.07 113 iPc   02 59.10   0.8
                iS    12 22.50
                ScP   15 00.30
CLO    73.22 315 iPc   02 57.50  -1.3
LVV    73.22 320 iPc   02 58.00  -0.7
       9.0s  *******nm          7.0mb X
     Z  20s    37.70um          6.7Msz
     N  18s    15.00um
     E  21s    21.40um
                iPcP  03 16.00
                iS    12 15.00
                eSS   17 03.00
DEV    73.28 316 iPc   02 59.50   0.4
VIR    73.46 239 iPc   03 01.00   0.3
SKO    73.78 312 iPc   03 00.10  -2.0
                i     03 01.80
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                iPP   05 54.00
                iPPP  97 44.00
                iS    12 20.50
                iPS   13 24.00
                iSS   17 42.00
                iSSS  21 06.00
APA    74.06 339 iPc   03 02.50  -0.8
       1.5s  3700.00nm          7.1mb
     Z  22s   135.00um          7.2Msz
     N  20s    11.00um
     E  22s    50.00um
                iPcP  03 20.50
                ipP   03 24.90  85kmX
                iS    12 24.50
                iSP   12 58.50
UZH    74.13 319 iPc   03 05.00   1.0
       1.6s  4500.00nm          7.1mb
     Z  18s    21.00um          6.5Msz
     N  18s    12.00um
     E  18s    15.00um
                ePcP  03 25.00
                iPPP  07 45.00
                iS    12 25.00
                iSKS  12 55.00
OHR    74.15 311 iPc   03 02.20  -2.2
                i     03 05.10
                iS    12 23.40
BLF    74.32 238 iPc   03 22.00  16.3X
SWZ    74.54 240 iPc   03 06.60  -0.4
KJF    74.97 335 iPc+  03 08.00  -0.6
       0.7s   130.00nm          6.0mb
                i     03 10.80
                i     03 28.50
                ePP   06 20.00
                ePPP  07 48.00
                iS    12 37.00
                eSS   18 12.00
GRM    75.19 234 iPc   03 11.60   1.1
       1.9s   720.00nm          6.3mb
     Z  20s    53.30um          6.8Msz
                i     03 31.60
SUF    75.19 334 iP    03 08.90  -1.0
       0.6s   182.00nm          6.2mb
JOS    75.26 319 iPc   03 10.70   0.1
       0.9s   270.00nm          6.2mb
NUR    75.29 331 iPc+  03 09.30  -1.1
       1.5s  1540.00nm          6.7mb
                i     03 31.80
                ePP   06 22.00
                ePPP  07 52.00
                iS    12 39.10
                eScS  13 14.00
                eP'P' 30 29.00
HVD    75.30 236 iPc   03 12.50   1.2
       0.9s   287.00nm          6.2mb
                i     03 17.40
NOU    75.42 115 iPc   03 13.00   1.1
                iS    12 47.00
                ScP   15 13.40
SPC    75.55 319 iP    03 12.10  -0.3
                i     03 33.30
                i     04 21.60
                i(PP) 06 20.40
                eS    12 43.20
PSZ    75.61 318 iPc   03 11.90  -0.8
BNG    75.85 273 iPc   03 15.00   0.4
       1.0s   295.00nm          6.2mb
BCAO   75.87 273 iPc   03 14.90   0.2
KRA    75.87 320 iPc   03 13.60  -0.4
       1.6s  3480.00nm          7.0mb
     Z  24s    43.50um          6.7MszX
     N  20s    31.90um
     E  20s    46.40um
                i     03 31.10
                i     03 38.60
                e     06 20.00
                e     07 52.00
                iS    12 42.00
BUD    76.14 317 iPKPc 03 14.40  -1.1
       1.1s   110.00nm          5.7mb
PVC    76.22 110 iPc   03 17.80   1.3
                iS    13 00.00
                ScP   15 19.30
SOD    76.40 338 iP    03 16.30  -0.3
                iS    12 53.50
MAW    76.58 192 iPd   03 18.90   1.4
       1.8s   500.00nm          6.1mb
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SRO    76.66 318 iPc   03 19.80   1.4
     N  20s    20.60um
     E  24s    28.10um
                i     03 37.00
                i     06 28.00
                iS    12 50.00
KHE    76.77 354 iPc   03 18.00  -0.5
       2.0s  3780.00nm          7.0mb
                iPcP  03 30.00
                iPP   06 15.00
                iS    12 54.00
                eSSS  21 14.00
KEV    77.03 341 iPc+  03 19.20  -0.9
       0.8s   286.00nm          6.2mb
                i     03 22.00
                ePP   06 36.00
                ePPP  08 36.00
                eS    12 56.00
                eSS   18 00.00
ZST    77.50 318 iPd   03 22.20  -0.9
       1.6s   774.00nm          6.4mb
                i     06 26.40
                i     06 43.20
                eS    13 04.00
VKA    78.03 318 iPc   03 26.50   0.5
       2.0s  7910.00nm          7.3mb
                i     03 30.40
                ipP   03 56.70 119kmX
                pPP   06 51.60
                e     09 32.00
                iS    13 10.80
KSP    78.28 321 iPc   03 27.50   0.2
       1.7s  3460.00nm          7.0mb
                i     03 30.60
                i     03 52.80
                iS    13 11.00
                e     30 25.00
                e     33 52.00
UPP    78.59 330 iPc   03 27.90  -0.9
       1.5s  3600.00nm          7.1mb
                ipP   03 50.70  86kmX
                iS    13 14.40
                i     13 34.50
KIR    78.82 338 iP    03 29.60  -0.4
SMY    79.01  38 eP    03 31.50   0.3
     Z  20s    15.00um          6.3Msz
LJU    79.10 316 iPc   03 32.10   0.2
                eS    13 19.00
CEY    79.15 315 iPc   03 32.00  -0.2
DRV    79.17 163 iP    03 31.40  -0.4
                e     30 25.00
PRU    79.33 320 iPc   03 33.00   0.0
       1.8s  1750.00nm          6.7mb
     Z  22s    19.80um          6.4Msz
     N  25s    37.10um
     E  21s    16.80um
                e     03 55.50
                PP    06 52.00
                iS    13 24.00
                PS    14 20.00
KMR    79.48 318 iP+   03 34.20   0.3
                i     03 38.30
TRI    79.62 315 iPd   03 32.40  -2.2
                iPP   06 37.40
                iPPP  08 23.10
                iS    13 24.00
                e     13 26.40
                eScS  13 43.90
                iSP   14 14.00
                iSS   18 38.00
                iSSS  22 00.00
BRG    79.76 321 iPc   03 35.30   0.0
       1.8s   540.00nm          6.2mb
                ipP   03 58.90  89kmX
                iS    13 28.80
                eP'P' 30 22.00
KHC    79.90 319 iPc   03 36.00  -0.2
       1.1s   519.00nm          6.4mb
     Z  20s    13.10um          6.3Msz
     N  20s    10.90um
     E  20s    18.00um
                e     03 55.90
                PP    05 14.20
                S     13 28.00
KBA    79.96 317 iPc   03 35.80  -1.0
       1.3s   625.00nm          6.4mb
                i     03 38.80
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                 ePP   06 43.20
                 eS    13 28.00
MCO   80.11 148 eP     03 37.00    0.0
BRL   80.27 322 iPc    03 38.50    0.6
BHG   80.31 317 iPc    03 37.80   -0.5
BRN   80.32 322 iPc    03 38.30    0.1
WET   80.36 319 eP     03 38.70    0.1
      Z  18s    19.50um          6.5Msz
                 eS    13 35.50
CLL   80.38 321 iPc    03 38.20   -0.4
      1.6s  1200.00nm          6.6mb
                 ipP   04 02.00   90kmX
                 iS    13 34.00
                 P'P'  30 24.00
COP   80.95 325 iPd    03 42.00    0.5
      1.2s   594.00nm          6.4mb
                 iS    13 25.00
TBY   81.02 330 iP     03 25.70  -16.0X
HOF   81.05 320 iPc    03 42.30    0.1
      2.0s  2720.00nm          6.8mb
      Z  21s    25.00um          6.5Msz
                 eS    13 43.00
CER   81.09 235 iPc    03 43.80    1.1
      1.0s   800.00nm          6.6mb
                 i     15 44.00
TUH   81.19 235 iPc    03 43.40    0.2
                 i     15 45.00
MOX   81.23 320 iPc+   03 43.00   -0.1
      2.0s  2940.00nm          6.9mb
      Z  20s    22.30um          6.5Msz
      N  20s    20.00um
      E  20s    17.20um
                 ipP   04 06.00   86kmX
                 ePP   06 50.00
                 isPP  07 20.00
                 iPPP  08 35.00
                 iS    13 45.00
                 esS   14 30.00
                 eP'P' 30 20.00
                 e     33 46.00
FIR   81.36 313 iPc    03 44.00    0.1
                 iS    13 44.00
FUR   81.39 318 iPc    03 43.80   -0.2
      1.5s  2060.00nm          6.8mb
      Z  21s    31.00um          6.6Msz
                 eS    13 45.00
GRF   81.46 319 ePc    03 45.00    0.7
      1.2s   271.00nm          6.0mb
      Z  22s    26.00um          6.5Msz
                 i     03 49.20
                 iS    13 48.40
GRFO  81.46 319 iPc    03 45.00    0.6
GAP   81.53 317 eP     03 44.60   -0.2
      1.5s  2930.00nm          7.0mb
OGA   81.55 316 iPc    03 44.80   -0.3
NB2   81.87 331 P      03 45.00   -1.3
      1.2s   486.00nm          6.3mb
MSZ   82.19 136 P      03 48.10    0.0
                 PP    06 59.00
                 e     07 29.00
                 S     14 05.00
HAM   82.33 323 iPc    03 49.90    1.2
                 i     03 52.00
STU   82.78 318 iPc+   03 50.30   -0.9
      1.0s   700.00nm          6.5mb
      Z  20s    28.40um          6.6Msz
LLS   82.94 316 eP+    03 52.30    0.0
TMA   83.04 316 iP+    03 52.30   -0.5
CVF   83.11 312 iPc    03 53.10    0.0
      1.5s  1790.00nm          6.8mb
TNS   83.25 320 iPc    03 53.40   -0.3
                 eS    14 05.00
SLE   83.27 317 eP+    03 53.30   -0.5
ZUL   83.34 317 eP+    03 54.00   -0.2
ILT   83.42  22 P      03 53.00   -1.1
BUH   83.42 318 iPc    03 54.10   -0.5
MMK   83.67 316 eP+    03 55.80   -0.3
GWF   83.82 319 iPc    03 56.50    0.0
BNS   84.05 321 iPc    03 57.70    0.1
      1.8s     1.86nm          3.8mb X
                 i     03 58.00
                 ePP   07 42.50
                 iS    14 13.50
DIX   84.05 316 iP+    03 58.70    0.6
CDF   84.06 318 iPc    03 57.70   -0.2
ECH   84.15 318 iPc    03 57.70   -0.5
WTS   84.24 322 iPc    03 58.70    0.2
      1.4s  1190.00nm          6.7mb
                 e     04 21.00
                 e     13 14.00
                 e     14 15.00
                 e     30 14.00
                 e     30 19.00
                 eSKKKS33 32.00
BAF   84.27 317 iPc    03 58.20   -0.7
WIT   84.30 322 ePc    04 00.00    1.2
      1.2s  2560.00nm          7.1mb
BSF   84.41 317 iPc    03 59.00   -0.6
      1.6s   720.00nm          6.4mb
ADK   84.65  36 ePc    03 58.10   -2.4
HAU   84.70 318 iPc    04 00.80   -0.2
FRF   84.71 313 iPc    04 01.30    0.3
      1.4s  1980.00nm          6.9mb
WLF   84.75 319 P+     04 02.00    0.9
                 e     04 25.00
                 e     07 47.00
                 PPP   09 38.00
                 e     10 56.00
                 SKS   14 15.00
                 SS    20 00.00
LMR   84.82 313 iPc    04 01.80    0.2
      1.4s  1190.00nm          6.7mb
NDF   84.82 108 iP     04 05.00    3.0X
ENN   84.85 320 ePc    04 01.50   -0.1
      1.6s   613.00nm          6.4mb
                 e     14 19.00
                 e     30 18.00
LRG   84.92 313 iPc    04 02.60    0.5
DBN   85.25 322 iP+    04 04.00    0.5
                 e     05 12.00
                 e     07 49.00
                 e     09 40.00
                 iS    14 20.00
                 ePS   15 18.00
                 eSS   19 52.00
DOU   85.74 320 Pc+    04 06.20    0.2
      0.8s   277.00nm          6.3mb
                 pP    04 30.00   89kmX
                 PP    07 44.00
                 PPP   09 44.00
                 SKS   14 23.00
VUN   85.81 108 ePc    04 07.50    0.5
      1.7s   611.00nm          6.4mb
SVA   85.82 109 eP     04 08.00    1.0
UCC   85.84 320 Pd+    04 06.70    0.2
                 PP    07 40.00
                 PPP   09 40.00
                 SKS   14 22.00
TCW   85.92 132 P      04 06.50   -0.6
                 PP    07 32.00
                 eS    14 25.00
                 eScP  16 10.00
                 ScS   21 13.00
SSB   86.11 315 iPc    04 08.20    0.2
KRP   86.27 129 P      04 09.60    0.7
                 PP    07 31.00
                 S     14 29.00
WEL   86.30 132 P      04 08.00   -0.9
      Z  22s   101.00um          7.2Msz
                 PP    07 34.00
                 e     08 03.00
                 S     14 24.00
                 SS    20 10.00
LBF   86.37 317 iPc    04 09.20   -0.1
      1.5s  1290.00nm          6.8mb
LOR   86.43 312 iPc    04 09.50    0.0
      1.4s  1190.00nm          6.8mb
SMF   86.49 316 iPc    04 09.80    0.0
      1.4s   962.00nm          6.7mb
SSF   86.68 317 iPc    04 10.80    0.0
      1.4s   760.00nm          6.6mb
MNG   86.71 131 Pc     04 10.40   -0.6
                 pP    04 24.40   48kmX
                 i     04 42.00
                 PP    07 33.00
                 e     08 48.00
                 S     14 23.00
                 (SKS) 14 44.00
AVF   86.81 317 iPc    04 11.10   -0.3
      1.5s   788.00nm          6.6mb
MZF   87.39 316 iPc    04 14.30    0.1
      1.3s   475.00nm          6.4mb
TCF   87.64 316 iPc    04 15.60    0.2
      1.5s   682.00nm          6.5mb
CAF   87.88 315 iPc    04 17.30    0.7
      1.3s   475.00nm          6.4mb
LSF   88.12 316 iPc    04 17.70    0.0
      1.3s   528.00nm          6.5mb
RJF   88.23 315 iPc    04 19.00    0.7
      1.4s   858.00nm          6.7mb
GNZ   88.32 129 P      04 18.00   -0.7
                 PP    07 47.00
                 S     14 55.00
LPO   88.53 315 iPc    04 20.40    0.7
      1.5s  1150.00nm          6.8mb
LFF   88.82 315 iPc    04 21.70    0.6
      1.5s   914.00nm          6.8mb
LDF   88.95 319 iPc    04 21.60    0.0
      1.6s  1520.00nm          7.0mb
ANM   89.09  25 eP     04 22.00    0.0
FLN   89.17 319 eP     04 22.60    0.0
      1.4s  1040.00nm          6.9mb
MFF   89.23 317 iPc    04 23.20    0.3
      1.7s  1750.00nm          7.0mb
NKI   89.32  37 iPc    04 22.10   -1.1
EPF   89.34 313 iPc    04 23.30   -0.3
      1.5s   436.00nm          6.4mb
GRR   89.46 318 iPc    04 24.20    0.2
      1.5s  1080.00nm          6.8mb
LPF   89.64 318 iPc    04 25.20    0.4
      1.7s  1990.00nm          7.1mb
DAG   89.70 348 iPc    04 23.60   -1.0
      0.9s    44.50nm          5.7mb
                 iS    14 44.00
EKA   89.81 326 Pc     04 25.70    0.2
      1.6s  1050.00nm          6.8mb
ESK   89.83 326 iPd    04 26.50    0.9
      1.0s   640.00nm          6.8mb
ALI   90.57 308 iP-    04 31.00    1.7
                 iS    14 51.00
ALE   91.28 357 iPc    04 31.70   -0.1
      0.7s   488.00nm          7.0mb
LGR   91.49 313 iPc    04 34.80    1.3
      1.7s     6.40nm          4.7mb X
                 iPP   07 35.00
                 iS    14 59.80
SBA   91.83 168 P      04 36.00    1.6
                 S     15 00.00
ETA   92.08 323 iPc    04 34.80   -1.1
      1.3s  1800.00nm          7.3mb
ECP   92.28 323 iPc    04 36.70   -0.2
      1.2s   860.00nm          7.0mb
ALM   92.33 307 iPc    04 38.00    0.5
      1.9s    29.00nm          5.4mb X
                 iPP   08 24.30
                 iS    15 02.30
ECB   92.49 323 iPc    04 36.00   -1.8
ALR   92.93 306 iP     04 42.00    1.8
                 i     04 44.00
NVL   93.04 199 iPc    04 42.00    2.0
      1.1s   150.00nm          6.3mb
      Z  17s    27.00um          6.8MszX
      N  17s     9.50um
      E  17s    16.00um
                 ipP   05 13.00  118kmX
                 ePP   08 22.00
                 ePPP  10 30.00
                 iSKS  15 04.00
                 iSS   22 00.00
TOL   93.07 310 iPc    04 41.00    0.1
                 i(pP) 05 05.00   88kmX
                 iPP   08 48.00
                 iPPP  10 52.00
                 iSKS  15 00.00
                 iS    15 41.00
                 e(sS) 16 30.00
                 i     16 55.00
                 iPS   17 30.00
                 iSS   22 50.00
CRT   93.18 308 iP     04 42.60    1.1
                 eSKS  15 06.00
                 iS    15 15.20
IMA   93.36  22 iPc    04 42.30    0.4
TTA   93.54  26 iPc    04 43.20    0.6
MAL   93.90 307 iPc    04 44.00   -0.7
                 i     04 49.50
                 i     05 09.00
                 iPP   07 22.00
                 iS    15 05.00
                 iPS   15 48.00
                 iSS   21 50.00
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04d 03h

AKU	93.99	338	iP	04	46.30	1.8
	1.3s	592.00nm				6.9mb
			e	08	15.70	
			i	17	04.60	
VAL	94.66	323	iP	04	49.00	1.2
			S	15	55.00	
IFR	95.04	304	iP	04	51.50	1.2
SFS	95.37	307	iPc	04	50.00	-1.4
			iPP	08	12.00	
			ePPP	09	51.00	
			iS	15	20.00	
			iPS	16	34.00	
			eSS	20	00.00	
SPA	95.70	180	ePc	04	52.40	-0.1
	1.1s	101.00nm				6.2mb
	Z 22s	48.00um				6.9Msz
			e	08	50.00	
MBC	95.78	8	iPc	04	52.30	-0.3
COL	96.08	22	iP	04	53.50	-0.7
	Z 20s	31.90um				6.8Msz
			e	08	47.00	
			eS	15	53.00	
FBA	96.08	22	iPc	04	53.00	-1.2
	1.5s	148.00nm				6.3mb
REY	96.11	337	iP	04	56.50	2.2
			i	08	55.20	
AVE	96.96	304	iP	05	01.50	2.8
PMR	97.03	26	iPc	04	57.90	-0.6
KDC	97.05	30	eP	04	59.00	0.4
PME	97.05	26	eP	04	59.60	1.0
	1.2s	326.00nm				6.7mb
	Z 20s	47.50um				7.0Msz
LIS	97.18	310	iPd	05	04.50	4.9X
KIC	98.74	277	iP	05	08.30	1.2
			eS	15	39.40	
INK	98.88	16	ePc	05	11.10	4.4X
	1.0s	562.00nm				7.1mb
PCA	101.54	25	ePdiff	05	20.00	1.1
HON	103.84	67	Pdiff	05	36.00	6.1X
YKA	108.35	14	ePdiff	05	49.90	0.9
YKC	108.39	14	ePdiff	05	49.00	-0.2
	1.1s	84.00nm				6.8mb
MBO	109.38	287	ePdiff	05	54.30	-0.3
			e	06	02.80	
			e	06	20.70	
			e	09	58.10	
			e	10	02.80	
			e	10	32.10	
FRB	109.57	352	ePdiff	05	54.00	-0.3
FCC	115.32	5	ePKPd	10	07.90	-0.4
	0.8s	86.00nm				
PGC	116.38	27	ePKP	10	10.80	0.2
MCW	116.64	27	PKP	10	11.90	0.7
EDM	116.65	18	ePdiff	06	27.90	1.7
EDM	116.65	18	iPKPd	10	11.20	0.1
	1.2s	516.00nm				
GMW	117.49	28	PKP	10	13.10	0.3
PNT	117.55	25	ePKP	10	13.00	0.1
	0.8s	122.00nm				
			pP	10	36.00	
SCH	117.73	348	ePdiff	06	33.50	2.5X
	1.1s	183.00nm				
TPT	118.14	104	ePKP	10	16.00	1.1
	1.1s	2.50nm				
FFC	118.16	11	ePKP	10	13.00	-0.9
	0.5s	114.00nm				
			pP	11	26.00	
LON	118.53	28	(PKP)	10	14.00	-0.9
COR	119.37	30	iPKPc	10	14.00	-2.5
NEW	119.39	24	iPKP	10	15.20	-1.3
STJ	119.67	335	ePKP	10	17.00	0.1
RXF	119.69	22	iPKP-	10	17.70	0.6
SES	119.81	19	iPKPd	10	17.00	-0.2
			pP	11	39.00	
LDW	119.95	23	iPKP-	10	18.00	0.5
LHD	120.02	23	iPKP-	10	18.00	0.3
CLX	120.22	23	iPKP-	10	18.50	0.2
PNO	120.77	27	PKP	10	18.40	-0.7
FHC	121.65	34	ePKPc	10	21.40	0.4
LGBW	122.24	32	ePKP	10	21.90	-0.5
WDC	122.59	33	ePKPc	10	22.00	-0.7
			epPKP	10	47.00	
			ePP	12	02.00	
			ePKKP	20	19.00	
			e	24	05.00	
RMT	122.98	34	iPKP	10	24.50	1.1
RSON	123.16	6	PKP	10	23.20	-0.3
MIN	123.27	33	ePKP	10	23.40	-0.9
NWRM	123.86	35	ePKP	10	25.90	0.6
BKS	124.63	35	ePKP	10	27.50	0.7
	1.3s	990.00nm				
			epPKP	10	51.40	
			ePP	12	17.20	
			e	23	48.00	
WCN	125.00	32	iPKP	10	28.90	1.2
MHC	125.34	35	ePKP	10	28.30	-0.1
CBM	125.40	346	ePKP	10	28.00	0.0
IMW	125.43	23	ePKP	10	24.30	-4.3X
			i	10	29.00	
BMN	125.47	30	ePKP	10	30.00	1.4
TMI	125.54	24	ePKP	10	28.90	0.1
JAS	125.60	34	ePKPc	10	28.50	-0.2
			epPKP	10	52.00	
			epPP	12	23.00	
			epPPP	15	10.00	
			ePKKP	20	10.00	
			e	23	50.00	
			eSS	27	55.00	
SAO	125.85	36	ePKP	10	28.50	-0.8
LHC	125.96	3	ePKP	10	17.00	-12.1X
	0.8s	397.00nm				
BEI	126.59	24	ePKP	10	31.60	0.8
FRI	126.69	34	ePKP	10	30.70	-0.1
PRI	126.74	36	ePKP	10	31.70	0.6
			epPKP	10	55.00	
BDW	126.90	22	ePKP	10	22.20	-9.2X
MIM	127.21	346	ePKP	10	31.70	0.2
EMM	127.28	344	ePKP	10	31.10	-0.5
MOUT	127.32	25	ePKP	10	31.80	-0.5
RSSD	127.56	17	(PKP)	10	21.50	-11.1X
MNT	127.94	350	iPKPc	10	32.40	-0.5
	1.5s	560.00nm				
WKTM	128.26	35	ePKP	10	31.00	-3.0X
BNH	128.34	347	ePKP	10	33.60	-0.2
OTT	128.39	351	ePKP	10	33.00	-0.7
	1.3s	480.00nm				
			pP	10	56.50	
PTN	129.07	351	iPKP	10	35.30	0.2
RKT	129.13	115	iPKP	10	40.40	4.6X
PAS	129.59	36	iPKP	10	29.00	-7.4X
			ipP	10	39.00	
			iPP	12	48.00	
			iSKP	13	50.00	
			iPKS	14	04.00	
			eSKS	17	05.00	
			iPS	22	56.00	
			ePPS	24	48.00	
			iSS	30	08.00	
			eSSS	35	27.00	
APH	129.70	350	ePKP	10	35.20	-1.2
			eSKP	13	50.00	
SDW	129.89	35	ePKP	10	26.30	-10.9X
WES	130.45	346	ePKP	10	38.10	0.3
GOL	131.12	21	ePKP	10	22.00	-17.5X
ELF	131.17	356	PKP	10	39.30	0.2
INY	131.39	351	ePKP	10	39.00	-0.6
DLA	131.52	356	PKP	10	39.70	-0.1
GLA	132.30	34	ePKP	10	29.80	-11.9X
GPD	132.43	349	iPKP	10	42.20	0.6
UTO	132.80	358	ePKPc	10	42.00	-0.3
CLE	132.88	356	iPKP	10	42.80	0.3
ITR	133.46	263	e(PKP)	10	28.00	-16.4X
ALO	134.87	25	ePKP	10	32.00	-14.7X
	Z 22s	31.50um				7.0Msz
			e	10	46.00	
ACO	135.83	16	ePKP	10	34.60	-13.7X
	1.1s	530.00nm				
			e	10	40.60	
			e	10	42.00	
			e	12	11.70	
			e	14	12.40	
NA12	135.96	352	ePKP	10	34.60	-13.8X
			e	10	47.30	
CVL	136.05	352	ePKP	10	37.40	-11.2X
RDJ	136.05	243	ePKP	10	46.40	-2.6X
FVM	136.24	6	ePKP	10	34.00	-15.0X
			eSKP	14	13.30	
SOB3	136.25	262	ePKP	10	43.20	-6.5X
			e	10	53.20	
			e	10	55.20	
BLA	137.04	354	ePKP	10	39.60	-10.9X
ELC	137.04	5	ePKP	10	37.20	-13.3X
			iSKP	14	14.70	
RLO	137.32	12	ePKP	10	37.70	-13.4X
			e	14	15.70	
OCO	137.38	15	ePKP	10	39.80	-11.4X
			e	10	53.70	
			e	14	16.50	
TUL	137.41	13	ePKPc+	10	38.70	-12.5X
	1.3s	985.00nm				
	Z 22s	63.50um				7.3Msz
			e	10	54.50	
			e	13	33.70	
			e	14	13.40	
SIO	137.45	13	ePKP	10	39.70	-11.6X
			e	14	16.30	
LUB	137.84	21	ePKP	10	46.00	-6.3X
GRT	138.04	5	ePKP	10	41.80	-10.6X
			i	10	56.70	
			eSKP	14	19.40	
VAO	139.31	241	ePKP	10	46.30	-8.9X
			e	10	50.60	
			e	10	55.90	
			e	10	59.70	
PRM	140.30	356	ePKP	10	47.40	-9.1X
LPA	141.55	217	ePKP+	10	52.00	-6.7X
	Z 20s	14.90um				6.7Msz
BAO	142.14	252	PKP	11	05.00	4.5X
MZX	144.57	35	ePKPc	11	03.40	-0.8
ITB	144.71	234	iPKP	11	03.70	-0.8
RFA	147.21	206	ePKPc	11	08.60	0.2
BPA	147.63	315	ePKP	11	09.00	-0.5
SEG	147.81	313	ePKP	11	10.50	0.8
TCA	148.00	215	ePKPc	11	10.50	0.7
PAG	148.18	313	ePKP	11	11.50	1.1
CRM	148.42	310	ePKP	11	10.90	0.2
MVM	148.53	310	ePKP	11	11.66	0.7
FDF	148.61	311	ePKP	11	10.65	-0.4
BIM	148.69	310	ePKP	11	11.60	0.4
LOT	148.77	205	ePKPc	11	12.00	1.0
CHCH	148.84	204	iPKPc	11	11.00	0.0
MNZ	149.02	37	iPKP	11	18.00	6.4X
LNV	149.12	203	iPKPc	11	13.90	2.6X
TACH	149.20	204	iPKPd	11	11.50	0.0
FCH	149.22	205	iPKPc	11	12.50	0.5
BACH	149.28	205	ePKP	11	15.50	3.8X
PEL	149.54	205	iPKPc	11	11.50	-0.6
	2.0s	735.00nm				
SJG	149.71	322	iPKP	11	12.00	-0.7
	Z 20s	22.70um				7.0Msz
CFA	149.73	210	ePKPd	11	13.50	1.1
ROCH	149.83	204	iPKPc	11	13.00	0.2
JACH	149.91	205	iPKPd	11	13.40	0.7
CEN	150.00	209	ePKP	11	14.00	1.1
CYA	150.84	217	ePKPc	11	14.70	0.5
IIC	151.15	28	ePKPd	11	16.00	0.8
TRN	151.20	304	iPKPc	11	16.80	1.8
	1.6s	1690.00nm				
CRX	151.26	29	ePKPd	11	16.10	0.7
TAC	151.50	28	iPKP	11	21.00	5.3X
SOR	151.57	356	iPKPc	11	15.00	-0.3
	1.0s	570.00nm				
			ipPKP	11	41.00	
IIM	151.57	29	iPKP	11	17.50	1.7
IIP	151.68	28	ePKP	11	17.20	1.2
TLL	152.14	208	iPKPd	11	16.10	-0.2
IIT	152.24	27	iPKPc	11	17.70	0.9
III	152.24	30	ePKPc	11	17.40	0.7
SLA	153.24	223	iPKPd	11	19.00	1.1
			e	15	10.00	
ACX	153.30	32	ePKPd	11	19.00	1.1
GUV	154.12	301	iPKPc	11	20.00	0.8
YJA	154.87	228	ePKPc	11	22.00	1.5
CAR	155.63	311	ePKP	11	22.80	1.5
	1.3s	146.00nm				
			i	11	23.20	
COM	157.12	17	iPKP	11	24.00	0.7
ANT	157.12	217	iPKP	11	24.20	1.3
TPL	158.18	220	ePKP	11	25.40	1.2
TOV	158.20	315	iPKPd	11	26.50	2.0
LGN	158.95	319	ePKP	11	31.50	6.3X
SDV	159.42	315	ePKP	11	26.60	0.6
	1.0s	241.00nm				
LPS	159.73	11	iPKPc	11	25.50	-0.7
	1.5s	408.00nm				
UAV	159.97	315	ePKP	11	27.50	0.9
LPB	160.06	236	PKPc+	11	29.00	2.1
	1.2s	1310.00nm				
	Z 22s	51.80um				
			(SKS)	22	26.00	
ZOBO	160.21	237	iPKPc	11	28.10	0.8

```
GAL   160.80 329 iPKP  11 32.50   5.4X
ARE   162.81 231 iPKPc 11 30.50   1.0
FUO   163.99 314 iPKP  11 32.00   1.2
BOG   164.80 312 iPKP  11 32.00   0.4
CHN   165.65 318 iPKP  11 32.00   0.0
PT06  168.09 227 iPKPd 11 34.80   1.2
PT02  168.73 230 iPKPd 11 34.20   0.2
PSO   169.50 311 iPKP  11 35.00   0.0
     S.D. = 1.1  on 494 of 543 obs.

   APR  11, 1983  08h 18m 10.18± 0.28s
   10.426 N ± 1.4km   62.775 W ± 1.3km
   DEPTH =  40.1 ±  2.4 km
   6.1mb (102 obs.)  5.9Msz ( 40 obs.)
 NEAR COAST OF VENEZUELA          ( 97)
      Felt (V) on Trinidad. Felt in
      the northeastern Venezuela
      states of Sucre, Monagas,
      Anzoategui and Bolivar. Also
      felt in the eastern suburbs of
      Caracas.

TCE     1.04  75 P      18 29.80   1.3
TPP     1.31  95 P      18 31.70  -0.6
TRN     1.37  81 P      18 30.90  -2.2
GRW     2.04  32 P      18 42.90   0.0
SLW     4.00  27 eP     19 10.15  -0.5
                 S      19 54.90
CAR     4.09 271 iPnc   19 14.00   2.1
BIM     4.39  22 iPd    19 15.50  -0.8
MVM     4.49  24 iPd    19 16.82  -0.9
FDF     4.57  20 iPd    19 17.90  -0.8
                 S      20 07.80
CRM     4.67  23 iPd    19 19.48  -0.6
SFG     5.99  15 ePd    19 38.30  -0.5
SEG     6.07  12 ePd    19 39.75  -0.1
MGH     6.28   5 P      19 43.00   0.2
BPA     6.64   8 ePd    19 47.10  -0.8
NEV     6.67   2 P      19 47.90  -0.4
TOV     6.94 265 iPc    19 53.80   1.7
      0.6s    70.60nm          5.7mb
CPB     7.23   7 P      19 55.00  -1.1
SDV     7.90 260 iPc    20 05.70   0.0
      0.8s   320.00nm          6.3mb
SJG     8.31 337 eP     20 09.00  -2.2
                 e(S)   22 04.00
LGN     8.37 269 e(P)   20 15.70   3.8X
UAV     8.45 258 iPnd   20 13.70   0.4
      0.5s   133.00nm          6.2mb
GAL    12.28 273 iP     21 10.50   5.1X
BOG    12.59 244 iP     21 08.50  -1.3
                 iS     22 18.00
CHN    13.83 248 iP     21 24.00  -2.1
PSO    17.12 239 iP     22 11.00   2.3
SOR    22.92 305 iPd    23 14.00   2.2
    Z  18s    32.60um          5.8Msz
HUA    25.56 210 iPd    23 39.30   1.5
                 iS     28 06.00
LPS    26.05 281 iPd    23 44.00   2.0
      1.0s   105.00nm          5.4mb
                 eS     28 47.00
NNA    26.29 212 iPd    23 45.70   1.6
      0.6s   240.00nm          6.0mb
                 eS     28 18.00
PT02   26.89 211 iPd    23 50.10   0.6
ZOBO   27.05 191 iPd    23 52.50   0.9
LPB    27.30 191 Pd-    23 56.00   2.3
      1.0s   940.00nm          6.4mb
                 S      28 35.00
ZIN    27.67 327 eP     23 57.70   1.3
                 e      30 49.50
ARE    28.07 198 eP     23 58.00  -2.6
COM    29.12 285 iP     24 11.00   1.1
SOB3   29.33 132 eP     24 11.80   0.1
PRM    29.60 326 ePd    24 14.80   0.9
NA12   30.61 336 eP     24 23.20   0.5
ITR    30.83 127 e(P)   24 22.00  -3.0
CVL    30.84 335 eP     24 25.50   0.7
GFM    30.85 329 e(P)   24 24.40  -0.7
BLA    31.06 332 iP+    24 28.10   1.4
      1.9s  1090.00nm          6.3mb
                 iS     31 29.60
NAV    31.31 332 ePd    24 30.30   1.3
TKL    31.54 326 eP     24 31.90   0.9
MD3    32.11 346 eP     24 39.50   3.6X
GPD    32.17 343 eP     24 36.50   0.1
                 i      24 52.80
WES    32.70 348 eP     24 42.80   1.8
PWLA   33.59 321 eP     24 50.00   1.1
EMM    34.43 354 eP     24 58.50   2.6
ANT    34.73 192 iP     24 57.50  -1.2
                 eS     30 22.00
APH    34.81 345 iPd    25 00.10   0.8
BNH    34.82 349 eP     25 02.20   2.9
                 i      25 14.50
DHN    34.97 340 eP     25 01.90   1.3
SLA    35.04 184 eP     25 00.00  -1.5
                 (S)    30 40.00
IN4    35.07 330 ePd    25 02.20   0.7
MIM    35.11 352 eP     25 03.70   2.0
GRT    35.27 321 ePc    25 04.00   0.8
IN3    35.29 328 ePd    25 04.50   1.2
IIT    35.35 288 eP     25 05.50   1.0
RSNY   35.48 345 eP     25 06.00   1.1
AN10   35.56 331 ePd    25 06.50   0.9
LST    35.62 321 ePc    25 07.00   0.8
AN11   35.73 331 ePd    25 08.20   1.1
AN12   35.77 332 ePd    25 08.40   1.0
ELC    35.82 323 iPd    25 08.40   0.6
IIP    35.97 289 ePc    25 11.50   1.7
                 ePP    25 26.10
UTO    36.09 333 iPd    25 12.00   1.9
IN1    36.30 330 ePd    25 12.70   0.8
POW    36.31 319 ePc    25 13.00   1.0
III    36.35 287 eP     25 14.50   1.7
IIC    36.36 289 ePc    25 14.20   1.2
                 ePP    25 29.50
HKT    36.40 307 iP     25 15.00   2.2
ELF    36.42 337 P      25 14.10   1.3
OTT    36.57 345 eP     25 15.00   0.9
      0.9s    81.00nm          5.6mb
                 pP     25 29.00  53kmX
AAM    36.64 334 ePd    25 16.00   1.3
VAO    36.65 155 eP     25 15.60   0.5
                 i      25 19.60
                 e      26 05.40
CBM    36.66 354 eP     25 17.00   2.2
                 e      25 30.80
CRX    36.69 288 ePc    25 17.10   1.3
FVM    36.99 322 iPc    25 18.20   0.5
                 e      31 20.00
ACM    37.90 332 ePd    25 26.20   0.9
STJ    37.98  11 eP     25 25.50  -0.4
ATX    38.16 306 iP     25 28.00   0.4
RDJ    38.25 150 eP     25 28.80   0.4
GBO    38.78 316 iPd    25 32.90   0.1
RLO    38.85 316 iPd    25 33.20  -0.1
TUL    39.23 316 iPd-   25 36.90   0.4
      1.7s   408.00nm          5.9mb
    Z  18s    25.00um          6.1Msz
                 e      27 10.00
VCA    39.29 188 ePd    25 37.90   0.7
SIO    39.50 315 iPd    25 38.70  -0.1
JCT    39.76 306 iPd    25 41.70   0.6
      0.6s   200.00nm          6.1mb
    Z  22s    13.00um          5.7Msz
                 i      27 25.00
ATO    40.80 314 eP     25 48.30  -1.2
RRO    40.80 313 ePd    25 50.20   0.7
      1.5s   691.00nm          6.2mb
TLL    41.09 191 iPc    25 51.00  -1.2
QZO    41.23 312 eP     25 52.70  -0.3
TCA    41.56 182 ePd    25 53.60  -2.2
ACO    41.96 315 iPd    25 59.20   0.2
      1.7s  1770.00nm          6.5mb
                 e      26 40.30
                 e      31 39.20
CFA    42.12 187 ePd    25 59.80  -0.5
                 S      32 45.00
CEN    42.15 188 eP     26 01.00   0.4
LUB    42.58 309 eP     26 05.40   1.2
MDZ    43.45 187 i(P)   26 08.90  -2.3
JACH   43.51 190 iPd    26 11.90   0.2
ROCH   43.86 190 iPd    26 14.00  -0.7
LHC    43.89 335 iPd    26 15.10   0.6
      1.0s   291.00nm          6.0mb
PEL    43.98 190 iPd    26 15.00  -0.4
FCH    44.09 189 iPd    26 17.00   0.3
BACH   44.15 189 ePc    26 17.50   0.6
SCH    44.39 357 eP     26 18.50   0.0
      0.5s   147.00nm          6.0mb
PCH    44.42 189 iPc    26 18.90  -0.1
TACH   44.52 190 iPc    26 19.40  -0.4
CHCH   44.74 189 iPd    26 21.30  -0.3
MBO    44.87  80 iP     26 22.60  -0.2
                 i      26 29.00
                 i      27 06.70
                 i      32 01.30
LNV    44.89 190 iPc    26 21.90  -0.8
RFA    45.27 187 ePd    26 25.10  -0.7
LPA    45.32 174 iP-    26 25.20  -0.9
                 iS     33 02.00
ALQ    46.61 309 iPd-   26 37.40   0.7
      0.8s   104.00nm          5.8mb
    Z  18s    13.80um          6.0Msz
                 e      26 51.00
TEN    47.07  61 iPd    26 41.30   1.2
                 iPcP   28 13.80
                 iS     33 26.00
GLD    47.61 315 eP     26 44.70   0.2
    Z  20s    17.70um          6.0Msz
RSON   47.63 334 iPd    26 43.60  -0.6
                 ePP    28 44.30
                 iScP   32 03.00
GOL    47.70 315 iP     26 45.30   0.0
      0.7s    49.00nm          5.6mb
    Z  19s     4.10um          5.4Msz
RSSD   48.91 321 ePd    26 53.30  -1.2
                 iScP   32 09.00
BDW    51.86 317 iPd    27 16.30  -0.8
      0.8s   140.00nm          6.0mb
                 iScP   32 21.50
MSU    52.14 311 iP     27 19.50   0.2
                 iScP   32 23.80
GLA    52.72 304 iPd    27 24.00   0.5
                 ePP    29 24.00
MOUT   52.84 314 eP     27 23.00  -1.5
BKU    52.86 311 iPd    27 25.00   0.4
                 iScP   32 26.20
BEI    53.11 315 ePc    27 26.00  -0.4
DUG    53.16 313 iPd    27 26.60  -0.1
                 iScP   32 28.00
IMW    53.23 318 ePd    27 26.40  -1.0
FRB    53.39 357 ePd    27 25.00  -2.8
TMI    53.66 317 iPc    27 29.60  -0.8
FCC    53.74 340 iPd    27 28.80  -1.6
      0.9s   149.00nm          6.0mb
FFC    53.94 333 iPd    27 30.30  -1.7
      0.6s   105.00nm          6.0mb
LCCM   54.63 320 iPd    27 36.90  -0.6
SDW    54.89 305 iPd    27 39.60   0.1
LRM    54.99 319 eP     27 39.60  -0.6
BUT    55.14 320 iPd    27 41.00  -0.2
EUR    55.25 311 iP     27 42.00  -0.2
      0.5s    37.20nm          5.7mb
LIS    55.36  50 iPd    27 43.00   0.4
AVE    55.49  57 iP     27 44.00   0.3
PAS    55.68 304 iPd    27 46.00   0.9
      1.9s   800.00nm          6.4mb
    Z  20s     5.60um          5.6Msz
    N  20s     8.80um
    E  20s     7.00um
                 epP    28 12.00 107kmX
                 iPP    30 01.00
                 iPPP   31 16.00
                 iS     35 32.00
                 iSS    39 29.00
                 iSSS   42 00.00
VPEM   55.78 306 iPd    27 46.00   0.1
SES    56.13 325 iPd    27 47.20  -0.9
WKTM   56.24 306 iPc    27 49.40   0.3
BMN    56.44 312 iPd    27 50.50  -0.1
                 eS     35 59.00
                 P'P'   57 55.00
PTO    56.44  47 iPd    27 49.00  -1.4
                 iS     35 16.00
MNA    56.62 309 iPd    27 51.90   0.0
STS    57.00  45 eP     27 53.00  -1.4
SFS    57.09  53 iPd    27 56.00   0.9
                 ePP    31 14.00
                 ePPP   33 33.00
                 iS     36 10.00
                 iSS    40 15.00
                 iSSS   42 20.00
IFR    57.41  57 iP     27 57.50  -0.1
KIC    57.49  89 iPd    27 57.80  -0.5
CLX    57.62 321 iP-    27 57.60  -1.3
PHAM   57.80 306 iPc    28 00.10   0.0
LDM    57.83 321 iP-    27 59.40  -0.7
RXF    57.87 322 iP-    27 59.80  -0.7
LHD    57.90 321 iP-    27 58.70  -2.0
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11d 08h

WCN	58.04	310	ePd	28	02.70	0.8	MZF	65.53	44	iPd	28	51.20	-0.7		Z	20s	1.80um		5.3Msz
PRI	58.07	306	eP	28	01.30	-0.8	VDM	65.87	41	iP-	28	54.00	0.1				eS	39	01.00
JAS	58.26	308	ePd	28	02.80	-0.5	PHC	66.01	321	ePd	28	54.20	-0.6	KBA	72.99	44	iPd	29	37.50 -0.4
MAL	58.56	53	iP-	28	06.00	0.7	AVF	66.16	43	iPd	28	55.50	-0.3		1.0s	263.00nm			6.2mb
			iS	36	10.00		SSF	66.31	43	iPd	28	56.40	-0.4				i	29	52.80
SLD	58.69	307	ePc	28	06.20	-0.1	SMF	66.47	44	iPd	28	57.40	-0.4	CLL	73.04	40	iPd	29	37.90 0.0
EDM	58.71	327	iPd	28	04.90	-1.3	LOR	66.59	43	iPd	28	58.10	-0.5		2.6s	1200.00nm			6.4mb
	0.6s	479.00nm				6.8mb	LBF	66.62	43	iPd	28	58.40	-0.4				i	29	45.30
NEW	58.87	321	iPd	28	06.10	-1.3	UCC	67.57	39	iPc-	29	05.30	0.6	COP	73.12	35	iPd	29	39.20 1.0
			e	28	26.00					S	38	01.00			0.9s	208.00nm			6.1mb
ARN	58.99	307	ePc	28	08.60	0.2	DOU	67.58	40	Pc-	29	04.00	-0.8		Z	21s	6.09um		5.9Msz
PNO	59.05	317	eP	28	07.00	-1.7		1.5s	1340.00nm			6.8mb					iS	39	06.00
MHC	59.07	307	ePd	28	09.20	0.1				S	38	02.00		NB2	73.20	29	P	29	38.30 -0.4
CRT	59.29	53	iPd	28	12.50	2.0	LRG	67.77	47	eP	29	06.10	0.0		1.4s	551.00nm			6.3mb
ORV	59.41	310	P	28	10.90	-0.4		1.4s	81.50nm			5.6mb		TRI	73.22	45	iPd	29	38.60 -0.4
TOL	59.48	50	iPd	28	12.00	0.2	LMR	67.86	47	eP	29	06.20	-0.5				iPcP	29	57.50
	1.6s	9.00nm				4.7mb X		1.4s	125.00nm			5.8mb					iS	33	06.00
			i	28	19.00		FRF	67.99	47	eP	29	07.10	-0.4				iSP	40	00.00
			ePcP	28	55.00			1.0s	49.60nm			5.5mb					iSPP	40	38.00
			ePP	30	18.00		DBN	68.33	38	iP-	29	09.00	-0.4				eSS	44	24.00
			iS	36	23.00			Z 20s	4.30um			5.7Msz					eSSS	47	28.00
			i	36	42.00					eS	38	10.00		BRN	73.26	38	iPd	29	39.50 0.4
			iSS	39	10.00					eSS	42	40.00		KHC	73.26	42	iPd	29	38.90 -0.4
BKS	59.64	308	iPd	28	13.00	0.2	HAU	68.37	42	iPd	29	09.40	-0.4		1.6s	279.00nm			6.0mb
	1.1s	110.00nm				5.9mb		1.2s	77.50nm			5.6mb			Z 20s	2.10um			5.4Msz
	Z 20s	6.00um				5.7Msz	WLF	68.50	41	P-	29	11.00	0.5		N 18s	1.10um			
	N 20s	10.00um								S	38	13.00			E 20s	2.00um			
	E 20s	[illegible] 00um					ENN	68.54	39	iPc	29	10.20	-0.5				PP	32	17.00
			e	28	37.00			1.0s	135.00nm			5.9mb					S	39	04.00
			ePP	30	30.00		BSF	68.64	43	iPd	29	10.90	-0.7	INK	73.28	338	iPd	29	37.20 -1.8
			ePPP	32	00.00			0.8s	58.40nm			5.7mb			0.7s	102.00nm			5.9mb
			eS	36	15.00		DIX	68.83	45	iPd	29	12.80	-0.2	BRL	73.31	38	eP	29	40.00 0.6
			eSS	40	30.00		CDF	69.04	42	iPd	29	13.60	-0.4	KMR	73.57	43	iP-	29	40.50 -0.6
LGBM	60.32	312	iPd	28	16.00	-1.8		1.2s	138.00nm			5.8mb		BRG	73.60	40	iPd	29	41.10 -0.1
RMT	60.37	310	eP	28	15.70	-2.0	STB	69.09	40	iPd	29	13.90	-0.2		2.0s	500.00nm			6.1mb
WDC	60.41	311	ePd	28	15.30	-2.8	MMK	69.21	45	iPd	29	15.40	0.1				i	29	48.20
PNT	60.79	321	eP	28	19.00	-1.5	WTS	69.30	38	iPc	29	15.30	-0.1	CEY	73.68	45	iPd	29	41.80 0.0
	1.1s	111.00nm				5.9mb		0.9s	188.00nm			6.1mb		LJU	73.77	45	iPd	29	42.50 0.3
REY	60.80	19	iP	28	14.50	-5.8X	GWF	69.35	42	iPd	29	15.50	-0.3				eS	39	07.20
			i	28	21.00		BNS	69.36	39	iPd	29	15.60	-0.2	PRU	73.93	41	iPd	29	43.40 0.3
ECB	61.35	35	iPd	28	23.80	-0.4		2.0s	0.43nm			3.1mb X			2.0s	695.00nm			6.3mb
LON	61.41	318	ePc	28	23.50	-1.3				eS	38	43.00			Z 19s	2.80um			5.6Msz
DCN	61.45	34	iPd	28	25.60	0.8	WIT	69.36	37	ePd	29	16.00	0.3		N 17s	0.80um			
	1.0s	550.00nm				6.6mb		1.0s	625.00nm			6.6mb			E 17s	3.50um			
ECP	61.52	36	iPd	28	24.80	-0.6	CVF	69.51	48	eP	29	16.50	-0.4				PP	32	26.00
	1.7s	820.00nm				6.6mb		0.9s	62.60nm			5.6mb					e	32	46.00
FHC	61.53	311	ePd	28	25.80	0.1	ZUL	69.66	43	iPd	29	16.80	-1.0				eS	39	08.00
ETA	61.80	35	iPd	28	26.90	-0.3	BUH	69.70	42	ePd	29	17.00	-1.0	HFS	74.29	30	iP	29	44.50 -0.4
	1.7s	1250.00nm				6.8mb	SLE	69.77	43	iPd	29	17.20	-1.2		Z 19s	4.00um			5.7Msz
DLE	61.83	34	iPd	28	27.90	0.5	TMA	69.84	45	iPd	29	18.30	-0.8	VKA	75.04	43	ePd	29	49.50 -0.1
	1.7s	900.00nm				6.6mb	LLS	70.01	44	iPd	29	19.70	-0.4		4.0s	2090.00nm			6.5mb X
COR	61.86	315	iPd	28	26.00	-1.8	TNS	70.05	40	iPc	29	19.60	-0.5				i	29	56.80
DMU	61.86	34	iPd	28	28.20	0.5	DAG	70.25	10	iPd	29	19.30	-1.5				eS	39	26.00
	1.0s	360.00nm				6.5mb		1.1s	78.50nm			5.6mb		KSP	75.09	40	iPd	29	50.00 0.2
ALI	61.92	52	iP+	28	28.00	-0.3	FIR	71.34	47	eP	29	21.00	-6.9X		2.0s	677.00nm			6.3mb
			i	36	56.00					eS	38	42.00		ZST	75.56	43	iP	29	51.80 -0.7
DDK	61.98	34	iPd	28	28.80	0.4	OGA	71.39	44	iPd	29	28.50	0.0				i	29	58.70
	1.5s	500.00nm				6.4mb		2.0s	435.00nm			6.1mb		BLY	75.62	46	iP	29	53.60 0.7
CMW	62.27	318	eP	28	28.20	-2.3	HAM	71.40	37	iPd	29	30.00	1.9	UPP	76.23	31	iPd	29	55.10 -0.9
BFW	62.27	317	eP	28	29.40	-1.2	MUD	71.41	34	iPd	29	28.20	0.1				i	39	36.00
MCW	62.61	320	eP	28	31.00	-1.8	FUR	71.67	43	iPd	29	29.60	-0.3	SRO	76.38	43	iPd	29	55.00 -2.1
PGC	63.00	320	eP	28	32.90	-2.3		2.2s	1030.00nm			6.4mb					iS	39	41.40
AKU	63.04	19	iP	28	35.30	0.0		Z 19s	3.20um			5.6Msz		BUD	76.86	44	e(P)	30	01.00 1.2
	1.9s	463.00nm				6.3mb	GRF	71.77	41	iPd	29	30.40	-0.1	KRA	77.42	41	iPd	30	03.60 0.8
EBR	63.07	49	eP	28	38.00	2.1		1.9s	616.00nm			6.3mb			1.4s	521.00nm			6.4mb
			eS	37	08.00			Z 22s	3.60um			5.6Msz			Z 19s	5.70um			5.9Msz
EPF	63.36	47	iPd	28	38.50	0.7	SIT	71.83	327	eP	29	30.50	-0.1		N 19s	1.60um			
LPF	63.52	41	iPd	28	38.60	-0.1	ALE	72.08	0	ePd	29	29.30	-2.4		E 19s	4.10um			
GRR	63.72	41	iPd	28	40.00	-0.1		0.7s	74.00nm			5.8mb					i	30	10.30
	1.0s	104.00nm				5.9mb	MOX	72.11	40	iPd-	29	32.00	-0.5				i	30	16.80
MFF	63.76	43	iPd	28	40.40	0.0		2.2s	438.00nm			6.0mb					eS	39	50.00
	1.5s	225.00nm				6.0mb		Z 19s	3.60um			5.7Msz		PSZ	77.44	43	ePd	30	03.00 -0.1
LFF	64.01	45	eP	28	42.00	0.0		E 19s	2.80um					SPC	77.64	42	iPd	30	05.90 1.6
	1.4s	199.00nm				6.0mb				i	29	56.00		JOS	77.85	43	iPd	30	06.20 0.9
FLN	64.06	41	iPd	28	42.10	-0.2				eS	38	52.00			1.4s	360.00nm			6.2mb
LDF	64.25	41	iPd	28	43.50	0.0				e	39	40.00		OHR	78.41	50	iPd	30	10.10 1.5
LPO	64.28	45	iPd	28	43.70	-0.1				e	40	12.00					iPcP	30	16.90
	1.2s	157.00nm				6.0mb				eSS	43	40.00					i	30	24.10
ESK	64.38	33	ePd	28	43.00	-1.2				iLO	48	00.00					iS	40	05.90
	1.0s	200.00nm				6.1mb	HOF	72.25	40	eP	29	32.80	-0.5	COL	78.52	334	iPd	30	07.90 -0.7
EKA	64.41	33	Pd	28	43.50	-0.9		2.4s	764.00nm			6.2mb			0.7s	139.00nm			6.1mb
RJF	64.63	45	eP	28	46.00	0.0		Z 18s	3.90um			5.7Msz			Z 19s	18.80um			6.4Msz
	1.5s	158.00nm				5.9mb	MBC	72.29	348	ePd	29	31.40	-1.7				e	33	05.00
LSF	64.82	44	iPd	28	47.20	-0.1		0.4s	34.00nm			5.7mb		FBA	78.52	334	iPd	30	07.80 -0.8
CAF	64.93	45	iPd	28	47.90	-0.2				pP	29	42.00	34kmX				ePP	33	05.50
TCF	65.29	44	iPd	28	50.40	0.1	WET	72.80	42	iPd	29	36.40	-0.2	SKO	78.83	49	iPd	30	11.00 0.2
	1.2s	86.40nm				5.7mb		2.4s	667.00nm			6.2mb					iPcP	30	18.00

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                 i     30 24.50
                 iS    40 08.00
UZH    79.01  42 iPd   30 13.00   1.4
       1.6s  530.00nm          6.3mb
     Z  18s    2.50um          5.6Msz
     E  18s    2.50um
                 iPcP  30 24.00
                 ipP   30 34.00  78kmX
                 iPP   33 10.00
                 iS    40 10.00
PME    79.13 331 eP    30 11.60  -0.4
       1.3s  254.00nm          6.0mb
     Z  20s   10.00um          6.2Msz
PMR    79.18 331 iPd   30 12.10  -0.1
                 ePP   33 14.00
GZR    79.55  46 ePc   30 01.50 -13.2X
VAY    79.72  50 iPd   30 16.70   1.1
NUR    79.74  30 iPd-  30 15.40   0.1
       1.0s  128.00nm          5.8mb
     Z  16s    4.00um          5.9MszX
                 i     30 22.50
                 eS    40 12.00
                 eScS  40 44.00
BMR    79.88  43 ePc   30 18.00   1.7
LVV    80.07  41 iPd   30 18.00   0.7
       4.0s 4500.00nm          6.8mb X
     Z  17s    1.90um          5.5MszX
                 ePP   33 20.00
                 iS    40 21.00
                 iPPS  41 26.00
THE    80.08  50 Pd    30 14.00  -3.5X
                 S     40 22.00
VTS    80.08  48 iPd   30 19.00   1.5
KEV    80.22  21 iP    30 17.00  -0.7
       1.0s   76.00nm          5.6mb
                 eS    40 24.00
                 ePPS  41 12.00
SUF    80.32  28 iP    30 18.20  -0.2
       0.5s   18.70nm          5.3mb
COZ    80.66  46 iPd   30 21.00   0.2
DRA    80.66  46 eP    30 21.00   0.5
BCAO   80.68  87 iPd-  30 22.00   0.7
       1.0s  118.00nm          5.8mb
                 eS    40 36.00
BNG    80.69  87 iPd   30 22.40   1.0
       1.0s  199.00nm          6.0mb
KJF    80.91  26 iP    30 21.20  -0.3
       1.2s  260.00nm          6.1mb
     Z  20s    6.10um          6.0Msz
                 ePP   33 36.00
                 eS    40 24.00
IMA    80.92 336 eP    30 21.50  -0.2
       1.3s  247.00nm          6.0mb
ATH    80.92  53 iPd   30 23.00   0.9
                 eS    40 31.00
KDC    81.12 327 eP    30 22.80   0.2
CMP    81.15  46 iPd   30 22.00  -1.2
MLR    81.76  45 iPd   30 27.50   1.0
KDZ    81.77  49 iPd   30 27.00   0.6
CVO    81.89  45 iPd   30 38.00  11.0X
DIM    81.90  49 iP    30 28.00   1.0
BUC1   81.95  46 iP    30 30.00   2.7
ISR    82.23  46 ePd   30 29.00   0.2
VRI    82.26  45 iPc   30 29.00   0.1
TTA    82.28 333 iPc   30 28.10  -0.6
BAC    82.30  44 eP    30 27.00  -2.0
PUL    82.63  31 iPd   30 31.00   0.5
       3.0s 3000.00nm          6.8mb
     Z  20s    4.70um          5.9Msz
     N  20s    1.20um
     E  20s    3.90um
                 ipP   30 48.00  61kmX
                 eSP   41 26.00
IAS    82.67  43 eP    30 32.00   1.0
EZN    82.73  51 iPd   30 31.60   0.2
APA    82.77  23 iPd   30 30.60  -0.5
     Z  20s    3.70um          5.8Msz
     N  20s    0.60um
     E  20s    2.50um
                 ePP   33 40.00
                 eSS   46 08.00
PPE    82.84  44 ePc   30 33.00   1.1
TLB    83.35  46 ePd   30 34.00  -0.5
CFR    83.35  45 ePc   30 34.50   0.0
DMK    83.53  49 iPc   30 35.50   0.0
KIS    83.58  43 iPd   30 36.00   0.4
       2.5s 1100.00nm          6.5mb
                 iPP   33 44.00
                 iS    40 55.00
EDC    83.82  50 iPd   30 37.80   0.8
CTT    84.13  49 iP    30 38.50  -0.1
CIN    84.41  53 iPc   30 40.80   0.8
                 i     30 57.20
DST    84.52  51 iPd   30 40.90   0.3
KHE    84.57   8 iPd   30 40.00  -0.1
       1.8s  350.00nm          6.2mb
     Z  20s    3.20um          5.7Msz
     N  20s    3.80um
     E  20s    5.60um
                 isP   31 14.00
                 ePP   33 58.00
                 ePPP  35 59.00
                 ePPS  42 35.00
ISK    84.61  49 eP    30 41.30   0.3
YER    84.63  53 iPd   30 40.00  -1.2
YLV    84.93  50 iP    30 43.50   0.8
GPA    85.68  50 eP    30 46.70   0.3
ALT    85.74  51 iPd   30 47.50   0.7
ELL    85.98  54 iPd   30 49.50   1.4
ANM    86.01 335 eP    30 47.50   0.0
BCK    86.39  53 iPd   30 50.50   0.5
OBN    86.83  35 iPd   30 51.50  -0.1
       2.0s 3000.00nm          7.2mb X
                 iS    41 28.00
                 eSPP  42 48.00
MOS    87.26  34 iPd   30 53.00  -0.7
       2.5s 1600.00nm          6.8mb
     Z  18s    5.20um          6.0Msz
     N  18s    1.20um
     E  18s    3.50um
                 ipP   31 19.00  98kmX
                 eS    41 32.00
SIM    87.55  45 ePd   30 55.00  -0.4
       4.0s 2500.00nm          6.8mb X
                 eS    41 37.00
                 eSP   42 35.00
ANTO   87.63  50 iPd   30 57.00   1.0
       1.5s  450.00nm          6.5mb
HLW    88.41  60 iP-   31 12.50  12.7X
                 iS    41 50.00
TUH    89.00 124 iPc   31 04.00   1.5
CER    89.13 124 iPc   31 04.00   0.9
ANN    89.76  44 iPd   31 07.00   1.1
       8.0s 3000.00nm          6.6mb X
                 eSKS  41 32.50
                 eS    41 48.50
ILT    89.79 340 iPd   31 05.00  -0.6
       2.0s  800.00nm          6.7mb
                 iPP   34 39.00
                 eSKS  41 30.00
                 eS    41 44.00
                 eSP   42 52.00
KVT    89.79  48 iPc   31 06.80   0.6
SUR    90.16 123 iPd   31 10.00   1.8
       1.5s  556.00nm          6.6mb
     Z  18s   31.60um          6.8Msz
SOC    91.78  45 iPd   31 16.50   1.3
       2.1s  600.00nm          6.6mb
                 iS    42 16.00
KIM    92.82 119 iPd   31 22.90   2.5
       0.9s  157.00nm          6.4mb
SWZ    93.02 117 iPd   31 21.60   0.2
                 e     35 02.00
HVD    93.76 120 iPd   31 27.60   2.9
       1.7s   84.00nm          5.9mb
PYA    93.96  44 iPd   31 26.50   1.2
       2.0s  220.00nm          6.2mb
     Z  18s    3.02um          5.8Msz
     N  18s    3.02um
     E  18s    3.02um
                 isP   31 55.00
                 iPP   35 12.00
                 iSPP  44 22.00
BLF    94.10 119 eP    31 29.00   2.7
VIR    94.51 118 iPd   31 29.80   1.6
NVL    94.77 161 iPd   31 30.00   1.7
       1.2s   90.00nm          6.1mb
     Z  14s    6.30um          6.2MszX
     N  19s    7.00um
     E  19s    8.60um
                 ipP   31 55.00  92kmX
BUL    94.81 110 eP    31 31.00   1.3
       1.0s   10.50nm          5.2mb
     Z  18s    5.50um          6.1Msz
     N  18s    5.50um
     E  18s    3.44um
                 eS    35 24.00
BKR    95.01  46 iPd   31 31.00   0.7
       2.6s  250.00nm          6.2mb
     N  22s    1.90um
GRM    95.10 123 iPc   31 30.90   0.2
       1.4s   76.00nm          5.9mb
KRI    95.22 106 iPd   31 32.00   0.3
                 iS    35 27.00
BPI    95.24 116 iPd   31 30.70  -1.0
PRE    95.31 115 e(P)  31 31.00  -1.0
SLR    95.39 115 iPd   31 33.50   1.2
       0.5s   93.00nm          6.5mb
     Z  19s   29.90um          6.8Msz
                 e     34 46.00
LEN    95.56  47 iPd   31 35.00   2.1
       5.0s 1300.00nm          6.6mb X
                 eSKS  42 00.00
MTA    95.93  46 eP    31 34.60   0.3
                 ePP   35 28.00
                 eS    42 52.00
GRO    95.98  44 iPd   31 35.00   0.5
                 iPP   35 27.00
ERE    96.21  47 iPd   31 37.00   1.2
EVA    96.22 116 eP    31 38.50   2.4
MSL    96.41  51 iPc   31 37.50   0.9
                 e     35 27.00
MTD    97.08 106 iPd   31 41.00   1.0
                 iS    35 33.00
MAK    97.30  44 eP    31 42.00   1.6
       8.0s 1500.00nm          6.6mb X
     Z  20s    6.00um          6.1Msz
     N  20s    0.90um
     E  22s    0.80um
KRV    97.37  46 iPc   31 40.00  -0.9
TIK    97.75 356 ePd   31 40.50  -1.5
       1.7s   70.00nm          5.9mb
     Z  21s    6.50um          6.1Msz
     N  22s    6.40um
     E  20s    2.20um
                 esP   32 08.50
                 ePP   35 47.00
GRS    97.77  48 iPd   31 42.40  -0.5
       2.0s   80.00nm          5.9mb
                 iPP   35 39.00
                 eSKS  42 17.00
ARU    97.78  29 ePd   31 42.70   0.3
       2.8s  200.00nm          6.2mb
     Z  18s    3.00um          5.8Msz
     N  18s    1.00um
     E  18s    2.00um
                 esP   32 12.50
                 ePP   35 37.50
                 ePS   44 35.00
                 eSPP  45 06.00
NRI    97.82  10 iPd   31 40.80  -1.5
       2.0s   40.00nm          5.6mb
                 ePP   35 38.00
                 ePS   44 36.00
TAB    98.26  49 eP    31 46.00   0.9
SVE    98.50  28 ePd   31 45.20  -0.4
       2.6s   90.00nm          5.8mb
                 epP   32 04.00  67kmX
                 ePS   44 45.00
                 eSPP  45 19.00
CNG    98.95 115 eP    31 52.00   3.8X
SPA   100.36 180 e(Pdif32 00.00   6.0X
       1.0s   15.00nm          5.5mb
     Z  19s    6.18um          6.1Msz
SEY   102.03 344 ePdiff32 01.00  -0.3
       2.0s   80.00nm          6.0mb
     Z  21s    7.50um          6.2Msz
     N  21s    5.80um
     E  23s    3.20um
                 eSP   45 13.00
                 e     51 08.50
IR2   102.55  50 ePdiff32 03.00  -1.4
MGD   104.78 343 ePdiff32 10.00  -3.5X
     Z  21s   11.00um          6.4Msz
     N  21s    7.40um
     E  21s    2.10um
                 eSP   45 40.00
                 ePPS  46 44.00
VAN   106.80  45 ePdiff32 24.60   1.5
       0.7s  170.00nm          7.2mb X
YAK   107.13 354 ePdiff32 37.90  14.0X
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11d 08h

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PET   107.60 335 ePKP  36 52.00  17.7X
      Z  21s     7.65um          6.2Msz
      N  21s     5.90um
      E  21s     4.45um
SEM   111.39  24 ePKP  36 37.70  -3.9X
                 ePP   37 19.00
                 eSP   46 40.40
BOD   111.92   2 ePdiff32 46.70   1.3
AVY   112.59 106 ePKP  36 43.00  -2.1
DSH   113.57  40 iPdiff32 39.00 -14.3X
                 i     53 41.00
ANR   114.38  36 ePdiff33 15.60  18.8X
       1.0s   150.00nm
KUL   114.58  40 iPdiff32 52.20  -5.6X
UER   115.10  16 ePKPd 36 56.80   8.1X
       0.9s    50.00nm
                 iPP   37 50.00
TUP   115.35 358 ePKP  36 48.10  -1.0
MOY   116.57  11 ePKP  36 49.40  -2.1
ZAK   118.24  10 ePKP  36 51.50  -3.2X
       0.9s    10.00nm
      Z  20s     5.18um          6.2Msz
      N  20s     3.13um
      E  20s     0.69um
                 ePP   38 07.00
RHP   123.55 224 PKP   37 05.40   0.2
NDI   125.18  44 ePKP  37 08.00  -0.7
MAT   129.28 338 iPKPc 37 15.00  -1.4
       0.8s    12.70nm
      Z  21s     5.73um          6.2Msz
BJI   129.78   1 ePKP  37 15.50  -1.7
                 S     40 35.00
NOU   131.51 249 iPKPd 37 21.50   0.5
LZH   132.05  15 PKPd  37 21.00  -0.9
       2.0s   151.00nm
      E  20s     4.20um
                 PPP   39 38.00
                 eS    44 40.50
                 eSS   47 56.00
HYB   132.82  54 ePKPc 37 07.50 -16.1X
                 e     37 22.50
TIA   133.61   0 ePKP  37 23.20  -1.4
GBA   133.86  60 PKP   37 20.00  -5.6X
       0.8s    10.00nm
GBA   133.86  60 PKPd  37 24.90  -0.7
       1.1s    31.50nm
XAN   135.08  10 PKP   37 26.20  -1.3
                 PP    40 00.00
CD2   136.92  17 ePKP  37 30.00  -1.1
                 ePP   40 11.00
NJ2   137.74 358 PKP   37 30.00  -2.5
                 PP    40 16.00
                 PKS   41 06.00
SSE   138.54 355 PKPd  37 32.00  -2.0
                 PP    40 18.00
                 PKS   41 06.00
WHN   139.17   4 ePKP  37 31.50  -3.7X
                 ePP   40 20.00
                 PKS   41 06.20
WAM   141.54 223 ePKP  37 36.00  -3.3X
CAN   141.94 224 ePKP  37 39.40  -0.7
KMI   141.95  22 ePKP  37 33.00  -7.7X
       7.0s     0.50nm
      E  20s     2.90um
                 PP    40 45.00
YOU   142.93 225 ePKP  37 39.10  -2.7X
ANP   144.36 353 ePKP  37 39.00  -5.6X
RAB   144.81 278 iPKP  37 43.00  -2.6
OZH   144.82 358 iPKPd 37 44.00  -1.2
                 PP    40 56.00
BFD   144.93 216 iPKPd 37 44.90  -0.2
KVG   145.78 281 ePKP  37 46.00  -1.2
CHG   145.81  32 iPKPd-37 46.30  -0.8
       2.0s   765.00nm
                 eS    41 56.00
CMS   146.23 227 ePKP  37 48.00   0.5
GZH   146.48   6 iPKPd 37 48.60   0.6
                 PP    41 13.50
BDT   147.13  33 ePKP  37 48.00  -1.2
       0.8s   130.00nm
HKC   147.34   5 iPKP  37 50.00   0.6
MCO   147.46   6 ePKP  37 51.50   1.9
ADE   148.69 215 iPKPd 37 55.50   4.1X
       0.5s    63.40nm
MOM   148.90 283 ePKP  37 53.00   0.8
STK   148.96 223 ePKP  37 51.00  -0.8
LAT   150.33 275 ePKP  37 57.00   2.7X
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CTA   150.44 248 iPKP  37 54.20  -0.1
       1.7s   144.00nm
CTAO  150.44 248 ePKPd 37 54.00  -0.3
PMG   150.51 269 e(PKP)37 48.00  -6.6X
PCT   150.54  32 ePKP  37 55.60   1.1
                 e     41 34.90
SZP   152.02 353 ePKP  37 40.00 -16.7X
       0.5s   143.00nm
BSI   153.05  55 ePKPc 38 04.50   6.2X
BAG   153.13 353 ePKP  37 56.20  -2.3
       1.7s   185.00nm
OCP   154.81 351 ePKP  38 04.00   3.4X
JAY   155.40 287 ePKPc 38 01.00  -0.6
SNG   155.93  44 ePKP  38 02.00  -0.2
TSI   156.83  54 e(PKP)38 15.00  11.6X
PSI   157.60  55 ePKPd 38 04.60   0.2
       1.5s    80.00nm
IPM   158.03  48 ePKPd 38 05.00   0.1
                 e     38 38.60
                 e     42 18.20
ASPA  159.35 228 ePKP  38 06.00  -0.1
PPI   160.56  60 ePKP  38 07.50  -0.1
                 e(S)  42 32.00
DAV   160.72 334 ePKP  38 07.00  -0.7
WB2   160.97 238 iPKPd 38 07.20  -0.7
                 i     38 51.30
                 e     42 29.80
WRA   160.98 238 PKP   38 08.00   0.1
       2.2s   266.00nm
KGM   161.44  49 ePKPc 38 09.10   0.6
                 e     38 53.00
                 e     42 36.50
WBN   162.04 208 ePKP  38 08.00  -0.8
KKM   163.61   4 ePKPd 38 09.20  -1.6
                 eS    39 02.00
MEK   163.85 184 ePKP  38 10.00  -0.6
MTN   166.17 259 ePKP  38 12.00  -0.8
AAI   167.22 301 e(PKP)38 11.00  -2.7X
      S.D. = 1.1  on 414 of 449 obs.

   APR  18, 1983  10h 58m 48.45± 0.33s
   27.748 N ± 1.7km   62.051 E ± 1.2km
   DEPTH =  39.5 ±  2.8 km
   6.6mb (113 obs.)  6.4Msz ( 25 obs.)
 SOUTHERN IRAN                    (353)
      Felt strongly in southeastern
      Iran. Also felt at Karachi,
      Pakistan.

QUE     4.93  59 iPd   00 04.50   2.2
KHI     7.01 336 iP+   00 33.20   1.7
SHI     8.58 285 iPc   01 55.00  61.8X
MHI     8.80 346 iPc+  00 58.70   2.5
       1.5s  4800.00nm          7.4mb
                 eS    02 59.00
ASH    10.64 344 eP    01 22.50   1.1
       0.7s   170.00nm          6.3mb
                 eS    03 24.00
VAN    10.70 343 eP    01 22.70   0.5
                 eS    03 20.20
KUL    12.01  31 iPc   01 41.80   1.8
       4.6s  *******nm          7.5mb X
      N  12s   242.00um
                 iS    03 59.30
TEH    12.07 314 eP    01 40.00  -0.9
DSH    12.16  26 iPc   01 43.50   1.5
      Z  16s    53.00um
                 eS    03 59.20
IR2    12.34 313 iPc   01 47.70   3.2X
SAM    12.58  18 P     01 47.40  -0.2
GAR    13.17  29 iPc   01 55.20  -0.3
      Z  15s   272.00um
                 iS    04 20.40
NDI    13.41  82 iPd   01 55.00  -3.5X
       0.7s   596.00nm          6.6mb
                 iS    04 11.00
POO    14.20 128 iPc   02 07.70  -1.3
KER    14.40 301 eP    02 13.50   1.9
TAS    14.79  22 P     02 16.00  -0.6
ANR    15.51  31 iPc   02 25.70  -0.2
       4.0s  8'00.00nm          6.3mb X
      Z  11s   105.00um
      N  11s   130.00um
      E  11s   230.00um
                 eS    05 17.00
BAK    16.11 325 P     02 36.00   2.5
KSH    16.44  41 iPc   02 39.00   1.1
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                 PP    02 54.00
                 eS    05 48.00
TAB    16.72 312 iP+   02 44.00   2.5
GRS    17.54 316 iPc   02 51.20  -0.5
       2.0s   700.00nm          5.4mb X
NRN    17.81  36 P     02 53.20  -2.0
NAK    17.95 314 iPd   02 58.70   2.1
MSL    18.17 303 iPc   02 58.00  -1.3
                 iS    06 22.50
                 iPcP  07 29.00
FRU    18.18  31 P     03 00.00   0.5
KRV    18.26 319 eP    03 00.00  -0.4
HYB    18.36 121 iPd   03 00.60  -1.3
       1.0s  1440.00nm          6.1mb
                 e     03 18.00
                 eS    06 21.00
MAK    19.30 326 iPc   03 13.00   0.2
       6.0s  *******nm          7.0mb X
      Z  25s   302.00um
      N  26s   272.00um
      E  25s   894.00um
AAA    19.62  34 iPc   03 16.00  -0.5
       6.0s     4.60nm          2.9mb X
                 iS    06 51.00
PRZ    19.82  38 P     03 18.00  -0.8
LEN    19.82 316 iPc   03 16.00  -2.8
       2.0s  2800.00nm          6.2mb
      Z  24s    84.00um
      N  24s    40.00um
      E  24s    60.00um
TLG    19.84  35 iPc   03 16.70  -2.1
      Z  16s    80.00um
                 iS    06 54.00
GBA    20.10 131 P     03 21.30  -0.3
DMN    20.42  85 iPd   03 25.20   0.0
GRO    20.43 324 P     03 25.00   0.1
KKN    20.55  84 iPd   03 26.80   0.2
BKR    20.60 317 iPc   03 27.00   0.2
       2.8s  *******nm          6.8mb
      E  20s   466.00um
                 ePPP  03 55.00
PKI    20.69  85 iPd   03 28.20   0.1
PYA    22.29 322 iPc   03 43.50  -0.2
       1.5s  1880.00nm          6.3mb
      N  13s    27.50um
                 eS    07 46.50
                 isS   08 14.00
                 iSSS  08 33.00
KOD    22.67 137 iPd   03 49.20   1.2
       1.0s   400.00nm          5.8mb
OBO    23.55 232 iP    04 02.20   6.1X
JER    23.63 286 eP    03 59.00   2.0
                 eS    08 14.00
MKL    23.84 232 iP    04 03.40   4.5X
TDD    23.95 232 iP    04 03.80   3.8X
SOC    23.95 317 P     03 59.00  -0.8
ARO    24.18 232 iPd   04 05.80   3.4X
                 i     08 35.00
KVT    25.13 309 iP    04 12.40   1.1
LSA    25.57  79 iPd   04 17.70   1.7
                 iS    08 40.90
ANN    26.12 317 iPc   04 20.00  -0.3
       7.0s  7000.00nm          6.3mb X
      Z  28s    76.00um          6.1MszX
      N  28s   160.00um
      E  28s    60.00um
WMO    26.12  45 iPc   04 21.50   1.0
                 S     08 45.00
                 PcS   11 20.00
SEM    26.54  27 P     04 23.90  -0.3
                 ePP   05 11.80
                 eS    08 45.40
HLW    26.96 282 iP+   04 29.50   1.3
                 eS    09 08.00
ANTO   27.03 304 eP    04 28.90   0.0
SIM    28.18 315 P     04 39.00   0.5
BCK    28.11 298 eP    04 37.20  -1.5
KDE    28.46 306 eP    04 40.80  -0.9
ELL    28.52 296 iPc   04 42.40  -0.1
ARU    28.74 356 iPc   04 44.00  -0.1
       2.0s  1700.00nm          6.4mb
      Z  12s   115.00um          6.7MszX
      N  12s    80.00um
      E  12s    24.00um
                 epP   05 02.00  77kmX
                 iPP   05 42.00
                 iS    09 31.00
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                 isS   10 01.00
                 iSS   11 03.00
                 iSSS  11 20.00
AAE   28.79 234 eP     04 47.20   1.9
ALT   28.81 301 iPc    04 44.10  -1.0
GPA   28.97 304 iP     04 45.80  -0.6
SVE   29.06 358 iPc    04 46.00  -1.0
      2.0s  1300.00nm          6.3mb
    Z  14s   162.00um          6.8MszX
    N  14s   103.00um
    E  14s    37.00um
                 iPP   05 47.00
                 iS    09 36.00
                 eSS   10 57.00
HRT   29.59 305 iP     04 51.30  -0.7
YLV   29.73 304 iP     04 52.60  -0.7
YER   29.87 297 iPc    04 53.70  -0.8
DST   30.06 302 iPc    04 55.90  -0.3
ISK   30.10 305 iP     04 55.10  -1.3
IST   30.14 305 iPc    04 56.00  -0.8
CTT   30.58 305 iP     04 58.60  -2.1
EDC   30.80 303 iPc    05 01.40  -1.2
IZM   30.86 299 iPc    05 03.00  -0.3
ELT   31.14  28 iPc    05 04.00  -1.4
      1.2s   960.00nm          6.5mb
NVS   31.22  24 eP     05 03.50  -2.6
      1.1s  1240.00nm          6.6mb
DMK   31.24 306 iPd    05 05.40  -1.1
PRK   31.77 300 eP     05 10.50  -0.7
NPS   31.82 293 eP     05 12.50   0.8
EZN   31.84 302 iPc    05 10.60  -1.1
TLB   31.91 311 iPc    05 11.50  -0.8
CFR   32.04 312 ePc    05 12.50  -0.9
KIS   32.30 316 iPc    05 14.00  -1.7
      3.0s  2300.00nm          6.5mb
                 iPP   06 26.00
                 ipPP  06 39.00
                 iS    10 14.00
PPE   32.77 313 iPc    05 19.00  -0.8
BIR   32.78 314 eP     05 21.00   1.1
BRD   32.88 312 ePd    05 22.50   1.7
OBN   33.02 333 iPc    05 21.00  -0.8
      4.0s  7200.00nm          6.9mb X
                 isP   05 45.00
                 iPP   06 40.00
                 iS    10 30.00
                 eSS   12 30.00
MOS   33.04 335 iPc    05 21.00  -1.0
      3.0s  6700.00nm          7.0mb
    Z  27s   160.00um          6.6MszX
    N  27s    75.00um
    E  27s    85.00um
                 ePP   06 34.00
                 ePcP  08 11.00
                 eS    10 34.00
                 eSS   12 42.00
ISR   33.09 311 iPc    05 23.00   0.3
CLI   33.11 314 iPc    05 23.00   0.2
BUC1  33.18 310 iPc    05 23.50   0.1
VRI   33.22 312 iPc    05 24.00   0.2
GTA   33.32  60 iPd    05 25.80   1.0
                 PPP   06 42.50
                 iS    10 38.00
BAC   33.36 314 eP     05 23.00  -1.9
CVO   33.57 312 iPc    05 28.00   1.2
ATH   33.57 298 iP     05 27.00   0.1
                 ePP   06 56.00
                 iS    10 56.00
MLR   33.61 312 iPc    05 28.00   0.7
CEA   34.12 314 iPc    05 32.00   0.3
CMP   34.14 311 iPc    05 35.00   3.2X
DRA   34.49 309 eP     05 39.00   4.3X
COZ   34.62 311 iPc    05 36.00  -0.1
VAY   34.93 303 iPc    05 37.80  -0.7
KZN   35.36 301 eP     05 42.00  -0.4
BDT   35.58  99 ePd    05 42.50  -1.8
      1.2s  1150.00nm          6.7mb
SKO   35.88 304 iPc    05 46.00  -0.6
                 i     05 58.00
                 iPP   07 10.00
                 iPPP  07 23.00
                 iS    11 25.00
                 iSSS  14 10.00
VLS   36.05 298 eP     05 47.00  -1.1
OHR   36.21 303 iP     05 47.10  -2.4
                 i     05 58.00
                 iS    11 25.30
LZH   36.21  66 iPd    05 51.00   1.3
    N  12s    13.00um
    E  12s    39.30um
                 sP    06 00.00
                 ePP   07 18.00
                 PPP   07 40.00
                 S     11 20.00
                 SS    13 46.00
SSR   36.27 309 iP     05 50.00   0.2
CD2   36.35  75 iPd    05 50.90   0.2
                 sP    06 18.00
                 ePP   07 20.00
                 ePPP  07 37.30
                 iS    11 28.50
LVV   36.38 318 iPc    05 51.00   0.3
      7.0s  6000.00nm          6.6mb X
    Z  20s    30.10um          6.1Msz
                 iPP   07 15.00
                 ePPP  07 31.00
                 iS    11 26.00
                 eSS   13 51.00
KMI   36.41  85 iPd-   05 51.50  -0.1
      5.0s    10.60nm          4.0mb X
    N  12s    21.50um
                 sP    06 15.00
                 PP    07 14.00
                 PPP   07 40.00
                 S     11 27.00
                 sS    11 54.00
UZH   37.00 315 iPc    05 56.00   0.1
      3.0s  *******nm          7.2mb
                 ipP   06 12.00  63kmX
                 iS    11 38.00
                 isS   12 08.00
MOY   37.66  40 iPc    06 02.70   1.3
      1.2s  1180.00nm          6.7mb
NAI   37.70 224 iPd    06 05.00   2.6
      2.0s  1240.00nm          6.5mb
JOS   38.07 314 iPc    06 05.40   0.5
      1.8s  1090.00nm          6.4mb
LCI   38.27 301 eP     06 03.80  -2.8
                 eS    11 40.50
SPC   38.47 315 iPc    06 09.10   0.6
                 i(PP) 07 56.40
                 eS    12 05.00
ZAK   38.51  43 iPc    06 10.10   1.6
      1.7s  1310.00nm          6.5mb
    Z  22s   121.00um          6.7Msz
    N  22s    38.40um
    E  21s    96.80um
                 ePP   07 42.00
                 ePPP  08 00.00
                 iS    12 02.80
                 eScS  16 18.00
BSI   38.58 119 ePd    06 09.00  -0.5
      1.5s  1050.00nm          6.4mb
PUL   38.66 335 iPc    06 09.00  -0.6
      2.0s  4200.00nm          6.9mb
                 ePP   07 40.00
                 iS    12 00.00
PCT   38.76 101 iPd    06 11.90   0.9
      1.6s    53.00nm          5.1mb X
BUD   38.76 312 iPc    06 11.00   0.3
      1.0s   130.00nm          5.7mb
BRT   38.89 302 i(P)   06 10.00  -1.8
KRA   38.93 317 iPc    06 12.50   0.4
      1.1s  2130.00nm          6.9mb
    Z  28s    74.10um          6.4MszX
    N  28s    34.40um
    E  28s    62.80um
                 i     06 21.00
                 i     06 37.80
                 i     07 48.00
                 eS    11 46.00
SRO   39.31 313 iP     06 13.40  -1.9
                 i     06 32.00
                 iPP   08 02.00
                 iS    12 10.00
                 i(SS) 15 42.00
ORI   39.39 300 eP     06 16.00   0.0
                 eS    12 20.00
BLY   39.42 308 iP     06 17.10   0.9
GYA   39.57  81 Pd     06 17.00  -0.9
                 sP    06 43.00
                 PP    08 04.00
                 PPP   08 18.00
                 S     12 16.00
IRK   39.78  40 iPc    06 19.80   0.6
      1.5s  1170.00nm          6.5mb
    Z  23s   112.80um          6.6MszX
    N  22s    28.40um
    E  20s    75.10um
                 epP   06 32.00  45kmX
                 esP   06 42.00
                 ePP   07 58.00
                 ePPP  08 18.00
                 ePcP  08 24.00
                 eS    12 16.00
                 eSS   15 06.00
                 eSSS  15 50.00
ZST   40.19 313 iP     06 21.50  -1.1
      1.6s   748.00nm          6.2mb
                 i     06 45.80
                 iPP   08 06.40
                 e(S)  12 17.50
SGO   40.30 301 iPc    06 24.50   1.0
                 iS    12 30.50
MEI   40.34 296 eP     06 24.50   0.6
XAN   40.43  69 Pd     06 25.30   0.5
                 S     12 25.90
                 SS    15 27.40
                 ScS   16 23.40
VKA   40.72 313 iPc    06 27.20   0.3
      1.1s  1370.00nm          6.6mb
                 i     06 35.70
                 iPP   08 31.20
                 i     08 43.00
                 ScP   12 23.00
                 eS    12 35.00
DUI   41.01 303 iPc    06 30.00   0.7
                 iS    13 02.00
GIB   41.22 297 eP     06 31.60   0.3
      0.8s     3.10nm          4.1mb X
BTO   41.23  59 iPd    06 32.60   1.3
NUR   41.34 333 iP     06 32.00   0.3
                 ePP   08 04.00
                 eS    12 36.00
                 eSS   15 40.00
KSP   41.39 317 iPc    06 33.00   0.6
      1.0s   555.00nm          6.2mb
                 iPP   08 48.80
                 iS    12 44.50
LJU   41.48 309 iPc    06 33.80   0.7
                 e     08 10.70
                 ePcP  08 39.00
                 eS    12 41.00
                 eScS  16 07.20
CEY   41.50 309 iPc    06 33.70   0.3
                 iS    12 43.00
SNG   41.83 112 iPd-   06 35.50  -0.8
      1.0s   560.00nm          6.2mb
    Z  22s    74.10um          6.5Msz
    N  22s    33.30um
    E  22s    47.00um
                 i     07 07.00
                 i     12 25.00
ADU   41.85 303 iP     06 37.00   0.7
                 iS    12 52.00
TRI   41.96 309 iPc    06 36.50  -0.5
                 i     06 44.00
                 i     07 02.30
                 i     07 09.30
                 iPPP  08 42.00
                 iS    12 40.00
                 iSS   15 54.00
                 eScS  16 32.90
KMR   42.10 312 iP+    06 38.60   0.3
                 i     08 40.70
                 i     09 07.50
                 iS    12 57.80
SUF   42.11 336 iP     06 37.80  -0.3
      0.3s   133.00nm          6.1mb
POI   42.21 304 eP     06 39.50   0.4
                 eS    13 22.00
PRU   42.26 315 iPc    06 39.70   0.2
      1.0s   455.00nm          6.2mb
    Z  23s    36.50um          6.2MszX
    N  24s    22.60um
    E  22s    33.60um
                 PP    08 36.00
                 S     12 55.00
                 SS    16 26.00
RDP   42.32 303 eP     06 40.50   0.3
TSI   42.34 118 ePd    06 41.40   0.9
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TABLE 4-90

18d 11h

```
ERC    42.35 297 eP    06 40.00  -0.4
MNS    42.39 303 iP    06 40.50  -0.1
       1.1s     6.54nm          3.2mb X
                iS    13 20.00
HHC    42.41  59 Pd    06 42.50   1.5
                PPP   08 47.00
                ScP   12 31.00
                PcS   12 40.00
KBA    42.45 310 ePc   06 41.20  -0.2
       1.0s   377.00nm          6.1mb
                i     06 51.00
                (PP)  08 46.70
                i     11 12.00
                e     12 33.30
                i     13 06.30
KJF    42.55 339 iP    06 41.00  -0.6
       0.7s   120.00nm          5.7mb
                i     06 48.20
                ePP   08 16.00
                iS    12 59.50
                eSS   16 36.00
KHC    42.68 313 iPc   06 43.00   0.0
       1.5s  1710.00nm          6.6mb
     Z  24s    23.60um          6.0MszX
     N  24s    17.30um
     E  24s    27.40um
                e     06 51.50
                S     13 05.50
                SS    16 26.00
BRG    42.84 316 iPc   06 45.00   0.8
       1.5s  1180.00nm          6.4mb
                i     07 13.90
                P'P'  08 20.00
                eS    13 10.70
BHG    42.87 311 iPc   06 44.10  -0.5
TIY    43.09  63 iPd   06 47.50   1.0
                S     13 09.00
PSI    43.13 119 iPd   06 46.50  -0.4
WET    43.13 313 iPc   06 46.30  -0.4
     Z  22s    27.80um          6.1Msz
APA    43.44 344 iPc   06 48.30  -0.5
       0.8s  1800.00nm          6.9mb
     Z  19s    87.00um          6.7Msz
                isP   07 10.00
                iPP   08 30.00
                iS    13 05.00
                esS   13 30.00
                iSS   16 24.00
CTI    43.47 309 iP    06 49.50   0.0
CLL    43.52 316 iPc   06 50.70   1.0
       1.6s  3800.00nm          6.9mb
                isP   07 15.00
                iS    13 17.00
                P'P'  38 06.00
FIR    43.52 305 iPd   06 50.00   0.2
                iS    13 12.00
BRL    43.63 318 ePc   06 52.00   1.4
IPM    43.65 115 ePd   06 51.00  -0.2
       1.0s    20.80nm          4.8mb X
                e     07 10.30
                e     08 38.10
BRN    43.67 318 iPc   06 51.80   0.9
OGA    43.99 310 iPc   06 53.20  -0.7
HOF    44.00 315 iPc   06 53.80   0.1
                eS    13 25.00
UPP    44.01 329 iPc   06 52.60  -0.9
                iPP   08 42.00
                iS    13 16.00
FUR    44.01 312 iPc   06 53.40  -0.4
     Z  22s    28.60um          6.1Msz
                eS    13 22.00
GAP    44.05 311 iPc   06 53.40  -0.7
SAL    44.20 308 eP    06 55.50   0.2
                eS    12 37.50
MOX    44.23 315 iPc+  06 56.30   0.8
       1.2s   143.00nm          5.6mb
     Z  18s    20.00um          6.1Msz
     N  21s    26.50um
     E  21s    25.90um
                i     07 12.00
                i     07 35.00
                i     07 41.00
                iPP   08 39.00
                i     09 00.00
                iS    13 28.00
                iSS   17 00.00
                e     38 38.00

GRF    44.30 314 iPc   06 57.00   0.9
       1.4s  3020.00nm          6.9mb
     Z  21s    13.00um          5.8Msz
                eS    13 30.00
GRFO   44.30 314 iPc   06 56.90   0.8
NRI    44.36  13 iPc   06 55.30  -1.0
       1.3s   820.00nm          6.4mb
     Z  17s    96.00um          6.8MszX
     N  17s    67.00um
                iS    13 24.00
                iSS   16 33.00
COP    45.02 322 iPc   07 02.60   0.9
       1.8s  4360.00nm          7.0mb
                iS    13 30.00
KLM    45.02 116 ePc   07 07.50   5.3X
SOD    45.05 342 iP    07 01.40  -0.4
GEN    45.24 306 eP    07 02.00  -1.6
LLS    45.38 310 eP+   07 04.50  -0.5
TMA    45.39 309 eP+   07 04.00  -1.1
WHN    45.43  73 iPd   07 06.00   0.7
                ScP   12 30.00
                iS    13 42.80
                sS    14 09.80
STU    45.47 312 iPc+  07 04.50  -0.9
       1.0s  1860.00nm          6.9mb
SLE    45.81 311 eP+   07 07.60  -0.6
HAM    45.85 319 iPc   07 09.70   1.4
ZUL    45.85 310 eP+   07 07.40  -1.1
HFS    45.92 329 eP    07 08.60  -0.2
       1.0s   802.00nm          6.6mb
     Z  20s    24.20um          6.1Msz
BJI    45.93  60 eP    07 10.00   0.8
                pP    07 17.00  23kmX
                PcP   08 50.00
                PP    08 54.00
                PPP   09 33.00
                ScP   12 43.00
                eS    13 43.00
                sS    13 55.00
                SS    17 02.00
ORO    45.98 308 eP    07 08.50  -1.2
MMK    46.02 308 eP+   07 08.60  -1.5
BUH    46.09 312 iPc   07 09.50  -0.9
TNS    46.15 314 iPc   07 11.80   0.9
                eS    13 54.10
PPI    46.26 121 ePd   07 11.50  -0.5
                eS    12 47.30
GZH    46.30  84 iPd   07 12.00  -0.2
                ipP   07 34.00  92kmX
                PP    09 02.00
                S     13 54.00
                isS   14 27.00
                SS    17 03.00
STV    46.38 306 eP    07 11.70  -1.1
DIX    46.41 308 eP+   07 12.40  -0.8
GWF    46.52 312 iPc   07 13.10  -0.7
KEV    46.63 344 iP    07 13.50  -0.8
       0.7s   294.00nm          6.3mb
                i     07 19.00
                ePP   09 04.00
                iS    13 58.20
                eSS   17 20.00
CDF    46.69 312 iPc   07 14.50  -0.7
ECH    46.75 311 iPc   07 14.50  -1.1
MCO    46.77  85 eP    07 16.10   0.0
BAF    46.82 311 iPc   07 15.10  -1.2
BGG    46.86 314 iPc   07 17.40   1.1
FRF    46.86 305 eP    07 15.60  -0.9
       1.1s   510.00nm          6.4mb
TIA    46.94  65 iPd   07 17.80   0.6
                pP    07 36.50  76kmX
                sP    07 45.50
                PP    09 10.00
                ScP   12 33.50
                PcS   12 42.00
                S     14 06.00
                ScS   17 03.50
LMR    46.95 305 eP    07 16.50  -0.7
       1.2s   180.00nm          5.9mb
BSF    46.96 311 iPc   07 16.80  -0.6
BOD    46.98  35 iPc   07 16.00  -1.2
       1.1s  1530.00nm          6.9mb
MUD    46.99 323 iPc   07 18.10   0.8
KGM    47.00 116 ePd   07 17.20  -0.7
       1.9s  1130.00nm          6.5mb
                e     09 04.00
BNS    47.06 315 iPc   07 18.80   0.9

                ePP   09 12.50
                eS    14 08.00
LRG    47.06 305 iPc   07 17.20  -0.9
       1.1s   321.00nm          6.2mb
STB    47.22 315 iPc   07 20.20   1.0
HKC    47.26  84 iP    07 20.00   0.1
                iS    15 06.00
HAU    47.27 311 iPc   07 19.20  -0.5
NB2    47.39 329 P     07 18.70  -1.8
       0.9s   680.00nm          6.6mb
BNG    47.43 249 iPd   07 22.00   0.7
       1.0s    17.00nm          5.0mb X
WTS    47.44 316 iPc   07 21.90   1.0
       0.8s   613.00nm          6.7mb
                epP   07 39.00  68kmX
                eS    14 16.00
BCAO   47.44 249 iP    07 21.30  -0.1
WLF    47.55 313 P+    07 25.00   3.2X
                e     09 30.00
                S     14 13.00
WIT    47.65 317 Pc    07 23.60   1.1
       1.1s  1880.00nm          7.0mb
                e     07 32.00
ENN    47.82 315 iPc   07 25.00   1.1
       0.8s   602.00nm          6.7mb
                epP   07 41.00  62kmX
                eS    14 28.00
NPA    47.98 210 iP    07 28.00   2.5
                ePP   09 01.00
                e     10 46.00
                iS    14 46.00
                eSS   17 19.00
AVY    48.42 198 iPd   07 29.90   0.8
DBN    48.45 316 iP+   07 29.00   0.2
                epP   07 41.00  43kmX
                e     13 50.00
                iS    14 29.00
                eSS   18 08.00
DOU    48.60 314 iPc+  07 31.00   1.0
       0.9s  2390.00nm          7.2mb
                S     14 21.00
UCC    48.81 315 iPd+  07 32.50   0.9
                PP    09 28.00
                S     14 34.00
LBF    48.82 309 iPc   07 31.40  -0.4
SMF    48.90 309 iPc   07 31.90  -0.5
LOR    48.91 310 iPc   07 32.10  -0.3
NJ2    48.95  70 Pd    07 33.30   0.4
                PP    09 25.00
                iS    14 34.50
SSF    49.14 310 iPc   07 34.00  -0.2
AVF    49.24 309 iPc   07 34.40  -0.6
       0.9s   956.00nm          6.8mb
TUP    49.35  41 iPc   07 36.10   0.4
       1.2s   790.00nm          6.6mb
ZF     49.76 308 iPc   07 38.80  -0.2
       1.1s  1190.00nm          6.8mb
TCF    50.02 309 iPc   07 41.00   0.0
       0.9s   968.00nm          6.8mb
VDM    50.07 312 iP+   07 41.40   0.2
CAF    50.14 307 iPc   07 41.80  -0.2
QZH    50.37  80 iPd   07 44.00   0.1
                S     14 56.00
                PS    15 19.50
LSF    50.50 308 iPc   07 44.40  -0.2
       0.8s   750.00nm          6.8mb
RJF    50.52 307 iPc   07 44.80   0.0
LPO    50.77 306 iPc   07 46.90   0.2
LFF    51.08 307 iPc   07 48.80  -0.3
SSE    51.09  71 P-    07 50.00   0.7
       1.0s     8.00nm          4.7mb X
     N  16s    33.40um
                pP    08 08.00  71kmX
                sP    08 18.00
                PcP   09 09.00
                PP    09 58.00
                iS    15 04.00
                PS    15 20.00
                sS    15 36.00
                SS    19 04.00
EPF    51.47 304 iPc   07 50.80  -1.3
       0.8s   235.00nm          6.2mb
EBR    51.54 302 eP    07 53.00   0.4
                eS    15 07.00
LDF    51.61 311 iPc   07 50.50  -2.5
TET    51.63 216 iP    07 55.00   1.6
                e     15 16.00
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MFF    51.65 309 iPc    07 50.80  -2.5
FLN    51.85 312 iPc    07 52.60  -2.2
       1.0s  4200.00nm          7.4mb
GRR    52.10 311 iPc    07 54.20  -2.5
LPF    52.23 311 iPc    07 55.10  -2.5
ALI    52.59 299 eP     07 59.00  -1.5
                 iS     15 22.00
CN2    52.64  55 iPd    08 00.00  -0.8
                 sP     08 26.00
                 PP     10 07.50
                 PcS    13 10.00
                 iS     15 22.50
ANP    52.85  78 iP-    08 06.00   3.3X
       0.8s   752.00nm          6.7mb
                 iS     15 32.00
TATO   52.88  79 eP     08 04.00   1.2
KHE    52.99 359 iPc    08 03.50   0.6
       1.3s   920.00nm          6.6mb
                 ePPP   11 08.00
                 iS     15 28.00
                 eSS    18 58.00
MTD    53.21 217 iPd    08 05.00  -0.3
                 ipP    08 32.00 113kmX
LGR    53.61 304 iPc    08 08.30   0.3
       1.3s     5.03nm          4.4mb X
                 iPP    10 07.00
                 iS     15 41.00
EKA    53.67 320 Pc     08 07.20  -1.0
       1.7s  1350.00nm          6.7mb
ESK    53.70 320 ePc    08 06.50  -1.9
       1.0s   760.00nm          6.7mb
                 e      08 32.00
KRI    54.33 219 iPd    08 13.00  -0.6
                 ipP    08 42.00 122kmX
ALM    54.37 297 iPd    08 14.50   0.9
       1.1s     7.00nm          4.6mb X
     N  30s     0.50um
     E  37s     0.90um
                 iPP    10 10.60
                 iPPP   11 14.50
                 iS     15 51.50
BAG    54.96  89 iPd-   08 18.00  -0.5
                 eS     15 57.00
ALR    55.00 296 iP     08 18.00  -0.2
                 i      08 27.50
                 i      08 43.00
GUD    55.07 302 iP     08 18.70  -0.2
TOL    55.10 301 iPc    08 20.00   1.0
       0.8s    20.00nm          5.2mb X
                 i      08 28.50
                 i      08 46.00
                 ePcP   09 24.00
                 iPP    10 24.00
                 (PPP)  11 58.00
                 iS     15 57.00
                 iPS    16 38.00
                 i(SS)  20 27.00
CRT    55.21 298 iP     08 19.80   0.0
YAK    55.44  32 iPc    08 18.70  -2.4
       1.5s  2230.00nm          7.0mb
     Z  14s    63.30um          6.9MszX
     N  14s    17.10um
     E  15s    48.00um
                 iPcP   09 20.70
                 iS     15 56.70
                 iScS   18 03.10
DKM    55.46 317 iPc    08 21.80   0.5
       1.0s   670.00nm          6.6mb
DDK    55.50 317 eP     08 21.70   0.1
       1.0s   335.00nm          6.3mb
MDJ    55.53  53 Pd     08 22.00   0.1
                 pP     08 41.00  74kmX
                 PcS    13 22.00
                 S      15 57.00
                 ScS    18 06.00
CVP    55.58  87 ePc    08 22.00  -0.6
DLE    55.63 317 iPc    08 23.00   0.5
       1.0s   560.00nm          6.5mb
KKM    55.63 102 ePd    08 23.00  -0.2
       1.0s   396.00nm          6.4mb
DMU    55.83 318 iPc    08 24.60   0.6
       1.3s  4200.00nm          7.3mb
MAL    55.94 297 iPc    08 24.00  -0.9
                 iPP    10 36.00
                 iS     16 03.00
DCN    56.07 317 iPc    08 26.50   0.8
       1.0s  1560.00nm          7.0mb
QCP    56.10  91 eP     08 28.50   2.1
TIK    56.64  20 iPc    08 27.50  -2.1
       1.1s  1510.00nm          6.9mb
     Z  16s    52.00um          6.7MszX
     N  15s    17.00um
     E  17s    49.00um
                 esP    08 54.00
                 ePcP   09 25.00
                 ePP    10 38.00
                 ePPP   11 54.00
                 eS     16 13.00
                 ePS    16 38.00
IFR    57.20 294 iP     08 34.50   0.2
VLA    57.38  55 iPc    08 34.00  -1.1
     Z  14s    41.70um          6.7MszX
     N  14s    30.50um
     E  14s    11.80um
                 isP    08 58.00
                 iS     16 28.00
                 iScS   18 12.00
SFS    57.40 297 iPc    08 35.00  -0.4
                 ePP    10 42.00
                 iS     16 30.00
                 iSS    19 12.00
                 iSSS   21 00.00
BUL    57.56 218 iPd    08 37.00   0.2
       0.8s    75.80nm          5.8mb
                 ipP    09 05.00 116kmX
                 eS     16 33.00
VAL    57.96 316 iP     08 39.20   0.2
                 iS     16 32.00
PTO    58.31 303 iPc    08 42.30   0.6
                 iS     16 40.00
KAG    58.77  68 Pd     08 45.30   0.3
                 eS     16 49.00
AVE    59.11 294 iP     08 47.00  -0.3
LIS    59.21 300 iPc    08 48.10   0.2
SHK    59.73  64 iPd    08 51.50  -0.1
BKB    59.95 109 ePc    08 56.50   3.1X
TRT    60.26 118 iPc    08 52.90  -2.6
       1.3s   321.00nm          6.3mb
PLP    60.99  92 ePc    08 58.00  -2.5
AKU    61.03 332 iPc    09 00.80   0.7
       0.9s  1410.00nm          7.1mb
                 i      11 16.10
DAG    61.10 345 iPc    08 58.70  -1.8
       0.7s   411.00nm          6.7mb
                 iS     17 14.00
CGP    61.93  95 iPd    09 05.20  -1.7
SLR    62.32 214 iPc    09 05.60  -3.8X
       1.4s   735.00nm          6.6mb
     Z  23s    27.30um          6.4MszX
                 i      09 18.60
EVA    62.57 213 iPd    09 11.30   0.2
REY    62.80 331 eP     09 12.30   0.4
                 i      11 32.60
BPI    62.81 214 iPd    09 12.70   0.0
KSR    63.13 216 iPd    09 14.80   0.0
                 i      09 23.30
DAV    63.33  96 iPd-   09 16.00  -0.1
       1.8s  7270.00nm          7.5mb
                 iS     18 00.00
MAT    63.56  61 iPd    09 16.40  -0.9
       1.8s  1110.00nm          6.7mb
     Z  20s     1.60um          5.2MszX
                 eS     17 46.00
PRY    63.71 214 iPd    09 27.00   8.4X
                 i      09 28.00
AKI    64.13  57 eP     09 22.00   1.0
                 e      18 58.00
YSS    64.14  49 iPd    09 21.10   0.1
       0.8s  2050.00nm          7.3mb
     Z  18s    19.60um          6.3Msz
     N  15s    14.00um
     E  18s    18.20um
                 epP    09 40.00  72kmX
                 ePcP   09 48.00
                 ePPP   13 17.00
                 iS     17 54.00
                 eSPP   18 20.00
                 eScS   19 08.00
                 eSS    22 05.00
SAP    64.16  53 eP     09 21.00  -0.1
                 eS     17 54.00
MKS    64.31 111 iPd    09 20.80  -1.8
       1.3s  2940.00nm          7.2mb
AOM    64.34  56 eP     09 24.00   1.6
                 eS     18 04.00
DDR    64.47  61 iPd    09 22.80  -0.6
OYM    64.68  62 eP     09 24.10  -0.6
SEK    64.79 213 iPd    09 26.00   0.4
VIR    64.96 214 iPd    09 26.50  -0.2
SWZ    65.02 216 iPc    09 25.00  -2.0
                 i      38 13.00
TSK    65.12  61 iPd    09 26.10  -1.4
MNI    65.37 102 eP     09 28.20  -1.2
       1.5s   805.00nm          6.6mb
KYS    65.45  62 eP     09 22.40  -7.3X
MIY    65.54  57 eP     09 30.00  -0.1
                 eS     18 10.00
MGD    65.76  33 iPc    09 30.50  -0.8
       1.0s   660.00nm          6.7mb
     Z  18s    47.00um          6.7Msz
     N  18s    13.00um
     E  18s    40.00um
                 epP    09 45.00  52kmX
                 esP    09 52.00
                 ePcP   10 04.00
                 ePP    11 52.00
                 iS     18 10.00
                 eSPP   18 48.00
                 ePPS   18 52.00
                 eScS   19 10.00
SEY    65.84  30 iPc    09 32.40   0.7
       1.2s  1580.00nm          7.0mb
     Z  20s    77.40um          6.9Msz
     N  20s    28.10um
     E  20s    58.00um
                 ePcP   09 58.40
                 iS     18 13.40
                 eScS   19 22.40
MAG    65.89  34 P      09 30.50  -1.6
BLF    66.15 214 iPc    09 34.00  -0.3
KIC    66.54 265 iP     09 38.10   1.1
                 e      38 09.60
KIM    66.57 215 iPd    09 36.90  -0.1
       0.9s   241.00nm          6.3mb
                 i      09 43.20
ALE    66.85 353 ePc    09 36.90  -1.1
       1.0s   849.00nm          6.8mb
HVD    67.71 214 iP     09 44.00  -0.2
       1.0s   210.00nm          6.2mb
                 i      09 52.00
TEN    67.80 291 eP     09 48.00   3.3X
                 iPcP   10 10.00
                 ePP    12 28.60
                 iS     18 42.00
                 ePPS   19 16.60
KUR    68.07  49 iPd    09 46.50   0.4
       2.0s  5400.00nm          7.3mb
     Z  20s    21.00um          6.4Msz
     N  20s    20.70um
     E  20s    20.40um
                 iPcP   10 12.00
                 iPP    12 23.00
                 iS     18 41.00
                 ePPS   19 21.00
                 iSSS   26 03.00
GRM    69.44 211 iPd    09 55.20   0.5
       1.3s   392.00nm          6.3mb
     Z  18s     8.81um          6.0Msz
KUPT   70.45 113 eP     10 01.30   0.1
AAI    70.84 105 ePd    10 01.00  -2.6
       2.0s  1660.00nm          6.7mb
SKR    71.49  42 eP     10 06.00  -1.0
       3.0s  7000.00nm          7.1mb
     Z  20s    56.10um          6.8Msz
     N  20s    46.40um
     E  20s    53.60um
                 ePcP   10 26.00
                 esP    10 31.50
                 iS     19 17.40
                 ePS    19 54.00
NAU    71.85 129 iPd    10 08.90  -0.6
       0.8s   193.00nm          6.1mb
PET    72.09  39 iPd    10 10.00  -0.4
       1.5s   640.00nm          6.4mb
     Z  24s    33.40um          6.5MszX
     N  26s    17.40um
     E  26s    45.70um
                 esP    10 36.00
                 ePP    12 56.00
                 eS     19 22.00
                 eSP    19 56.00
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18d 11h

CER		73.07	216	iPc	10 18.40	1.9
				i	10 28.50	
TUH		73.10	217	iPd	10 17.00	0.4
				i	10 26.00	
MBO		73.85	278	iP	10 23.00	1.7
				i	10 40.00	
				i	10 45.00	
				i	19 48.20	
MBL		74.05	125	iPc	10 21.10	-1.2
ILT		74.64	20	iPc	10 25.00	-0.1
		1.3s	1400.00nm			6.8mb
	Z	18s	38.00um			6.7Msz
	N	22s	32.00um			
	E	22s	38.40um			
				iPcP	10 42.00	
				isP	10 52.00	
				iPPP	15 00.00	
				iS	19 54.00	
				iSP	20 30.00	
				iPPS	20 52.00	
				iSS	24 45.00	
MBC		76.25	0	iPc	10 33.80	-0.3
		0.8s	678.00nm			6.7mb
				pP	11 01.50	108kmX
MEK		76.60	130	iPc	10 35.40	-1.5
		0.6s	30.00nm			5.5mb X
GUMO		77.53	81	e(P)	10 42.00	-0.2
				e(S)	20 15.00	
BAL		78.03	134	iPc	10 43.10	-1.5
MTN		78.09	111	eP	10 44.00	-1.2
MUN		78.64	135	iPd	10 46.10	-1.9
NWAO		79.92	135	iPd	10 53.80	-1.1
		0.7s	125.00nm			6.0mb
SMY		80.49	35	eP	10 59.00	1.4
ANM		80.87	19	iPc	11 00.30	0.9
FRB		80.89	340	iPc	10 59.50	0.0
JAY		81.14	98	ePd	11 01.00	-0.8
		1.9s	2190.00nm			6.8mb
KLG		81.24	131	iPd	11 00.90	-1.0
		1.2s	420.00nm			6.3mb
WBN		81.97	125	iPd	11 05.40	-0.4
IMA		82.57	14	eP	11 08.70	0.2
INK		83.56	6	ePc	11 13.50	0.2
		1.1s	510.00nm			6.5mb
				pP	11 32.00	67kmX
WWW		84.23	97	eP	11 18.50	0.9
WRA		84.46	116	Pc	11 18.80	0.2
		0.9s	305.00nm			6.4mb
TIA		84.69	16	iPd	11 19.80	0.6
COL		84.78	12	iPc	11 20.00	0.4
		1.3s	903.00nm			6.8mb
	Z	23s	43.90um			6.8MszX
				eS	21 37.00	
FBA		84.78	12	iPc	11 20.00	0.4
STJ		84.88	322	eP	11 21.50	1.2
ADK		85.51	32	eP	11 21.90	-1.5
ASPA		86.09	119	iPd	11 26.60	-0.1
SVW		86.32	17	eP	11 28.40	1.0
SCH		86.79	333	ePd	11 30.30	0.6
		1.1s	474.00nm			6.6mb
MOM		86.82	94	eP	11 30.00	-0.5
MDG		86.89	98	eP	11 28.00	-2.8
PMR		87.47	14	iPc	11 33.20	0.4
	Z	20s	23.50um			6.6Msz
TOA		87.63	13	eP	11 35.20	1.5
NKI		88.25	28	eP	11 36.00	-0.7
LAT		88.61	98	eP	11 39.00	-0.1
SDN		89.59	23	eP	11 43.50	0.4
KDC		90.03	18	iPd	11 46.20	1.1
PMG		90.03	101	eP-	11 42.00	-3.7X
YKA		90.04	358	eP	11 46.10	1.1
YKC		90.05	358	ePc	11 45.50	0.5
		1.1s	1110.00nm			7.1mb
KVG		90.07	93	eP	11 45.00	-1.0
PCA		90.58	11	eP	11 49.20	1.5
LMG		90.67	100	eP	11 49.00	0.1
FCC		91.56	348	iPc	11 52.60	0.5
		1.2s	1120.00nm			7.2mb
RAB		92.03	94	iP-	11 44.70	-10.3X
CBM		93.13	328	eP	12 01.10	1.6
CTA		94.24	110	iPd-	12 04.40	-0.6
		1.5s	275.00nm			6.5mb
				iSKS	22 28.00	
CTAO		94.24	110	eP	12 04.60	-0.4
				pP	12 13.00	26kmX
SIT		94.26	9	eP	12 06.00	1.4
MIM		94.81	328	e(P)	12 07.20	-0.1
MAW		95.06	180	iPc	12 10.20	2.6
		1.1s	71.00nm			6.0mb
ADE		95.52	127	eP	12 11.00	0.3
		1.0s	84.00nm			6.2mb
STK		96.12	123	eP	12 12.00	-1.4
BNH		96.34	328	eP	12 15.80	1.4
				epP	12 24.50	27kmX
MNT		96.70	330	iPc	12 17.00	1.1
		1.0s	64.00nm			6.1mb
FFC		96.72	351	eP	12 16.00	0.1
		1.0s	416.00nm			6.9mb
MIR		96.90	168	iP	12 17.00	0.9
		2.0s	10.00nm			5.0mb X
				epP	12 37.00	72kmX
				esP	12 45.00	
				iPP	16 12.00	
				iSKS	22 52.00	
				i	30 18.00	
OTT		97.69	331	eP	12 25.00	4.6X
		0.5s	16.00nm			5.8mb
RSNY		97.85	330	eP	12 22.30	1.1
PTN		98.03	331	e(P)	12 22.70	0.8
				ipP	12 32.50	31kmX
APH		98.39	330	eP	12 24.00	0.4
				epP	12 34.00	31kmX
				ePP	16 19.00	
RSON		98.86	345	P	12 26.50	0.9
EDM		99.28	357	ePc	12 28.00	0.5
		1.2s	298.00nm			6.7mb
LHC		99.94	341	eP	12 31.50	0.9
		1.2s	156.00nm			6.4mb
TOO		101.58	126	ePdiff	12 39.00	1.0
YOU		102.28	122	iPdiff	12 49.00	7.8X
CAN		103.18	123	iPdiff	12 46.50	1.3
ITR		103.26	267	ePdiff	12 38.20	-7.8X
				e	12 50.20	
PNT		103.27	1	ePdiff	12 45.00	-0.2
WAM		103.45	124	ePdiff	12 52.00	5.7X
PGC		103.79	4	ePdiff	12 52.00	4.5X
NEW		104.34	359	ePdiff	12 51.00	1.0
				e	17 07.00	
GMW		104.93	3	e(Pdif	12 55.00	2.3X
SOB1		105.64	268	ePKP	17 08.10	-1.8
				e	17 21.90	
LON		105.77	3	ePdiff	12 58.00	1.5
BLA		106.40	330	e(Pdif	12 50.00	-9.5X
LRM		106.61	356	ePdiff	13 01.40	0.9
RSSD		107.36	350	e(Pdif	13 03.00	-0.8
COR		107.85	4	iPdiff	13 22.00	16.3X
BDW		109.40	353	e(Pdif	13 09.00	-4.0X
FVM		109.71	337	e(Pdif	13 10.00	-4.1X
	Z	20s	6.39um			6.2Msz
FHC		111.57	5	ePKP	17 23.00	2.7X
				ePP	18 03.00	
GLD		111.81	349	e(PKP)	17 38.00	17.0X
	Z	20s	20.00um			6.7Msz
WDC		111.89	4	ePKP	17 25.00	4.1X
				ePP	18 05.00	
				ePKKP	28 14.00	
BMN		112.17	359	ePdiff	13 33.80	8.6X
				eSKS	25 07.50	
				ePKKP	28 16.40	
MIN		112.17	3	PKP	17 29.00	7.3X
SJG		112.22	306	ePKP	17 42.00	19.8X
	Z	22s	7.41um			6.2Msz
NOU		112.27	104	iPKPc	17 13.00	-9.1X
RLO		112.86	340	ePdiff	13 40.00	11.8X
ORV		112.96	3	e(Pdif	13 34.00	5.4X
EUR		113.09	358	i(Pdif	13 39.00	9.5X
		0.2s	14.00nm			
WCN		113.27	2	ePKP	17 25.80	2.0
TUL		113.32	341	ePdiff	13 38.40	8.1X
		0.8s	15.40nm			
	Z	22s	19.60um			6.7Msz
				e	24 00.00	
				e	27 41.00	
				e	45 00.00	
MNA		114.17	0	ePKP	17 26.20	0.6
				ePKKP	28 10.50	
JAS		114.61	2	ePdiff	13 41.50	5.5X
MHC		115.16	3	ePKP	17 36.00	8.5X
				ePP	18 25.00	
RMU		115.19	354	e(Pdif	13 51.20	12.4X
SLD		115.45	3	ePKP	17 30.00	2.1
FRI		115.58	2	ePKP	17 36.50	8.4X
PRI		116.40	2	ePKP	17 42.00	12.1X
				ePP	18 37.00	
VPEM		116.64	360	ePKP	17 31.50	1.1
ALO		116.71	349	e(Pdif	13 47.00	1.4
WKTM		116.80	0	ePKP	17 38.00	7.4X
LUB		117.13	345	ePKP	17 32.00	0.7
SPA		117.59	180	e(PKP)	17 32.00	0.8
		1.2s	155.00nm			
	Z	20s	8.37um			6.4Msz
PAS		118.44	0	ePKP	17 56.00	22.3X
	Z	20s	9.00um			6.4Msz
	N	20s	9.20um			
	E	20s	5.20um			
				epP	18 49.00	
				esP	19 06.00	
				iPPP	24 30.00	
				iSKS	28 23.00	
				iSKKS	28 41.00	
				eSS	35 24.00	
				eSSS	40 15.00	
GLA		119.46	357	ePKP	17 38.00	2.3X
JCT		119.56	342	ePKP	17 35.00	-0.9
		1.0s	90.00nm			
	Z	22s	17.80um			6.7Msz
				i	17 59.00	
MSZ		119.83	128	PKP	17 36.00	0.1
				(pP)	17 44.00	
RHP		121.25	127	ePKP	17 38.90	0.1
SNZO		124.18	123	ePKP	17 44.70	0.3
		1.1s	179.00nm			
WEL		124.22	123	PKP	17 44.00	-0.5
	Z	22s	17.80um			6.7Msz
	N	20s	7.09um			
	E	20s	5.67um			
				ePP	19 24.00	
				PS	29 44.00	
				e	37 16.00	
				SS	38 06.00	
KRP		124.25	119	PKP	17 45.00	0.4
				e(PP)	19 23.00	
BMG		124.52	302	ePKP	17 46.00	0.0
MNG		124.65	122	PKP	17 44.20	-1.2
GNZ		126.30	119	PKP	17 50.00	1.4
BOG		126.85	300	e(PKP)	17 52.50	1.7
AFI		128.21	86	e(PKP)	17 55.00	2.0
				e	19 59.00	
				ePP	20 00.00	
				e	21 20.00	
				e(SKS)	25 24.00	
				e	27 28.00	
				e	31 40.00	
				e	32 12.00	
				eSS	37 20.00	
				eSSP	38 04.00	
				eSSS	42 20.00	
IIC		129.42	337	ePKP	17 57.40	1.9
IIP		129.69	336	ePKP	17 57.30	1.3
TAC		129.73	337	ePKP	18 05.00	8.9X
IIT		129.77	336	ePKP	17 57.60	1.5
III		130.78	337	ePKP	18 00.00	2.0
PSO		131.53	300	ePKP	18 01.50	1.7
ACX		132.31	336	ePKP	18 02.70	2.1
YJA		132.41	264	ePKPc	17 49.80	-11.5X
ZOBO		132.70	273	e(PKP)	17 52.50	-9.6X
				e	18 02.50	
LPB		132.77	273	PKP	18 05.00	2.9X
		1.5s	500.00nm			
				SKS	25 20.00	
TCA		133.81	252	ePKPd	18 04.00	0.7
ARE		135.75	275	iPKPc	18 10.00	2.4X
VCA		136.42	256	ePKP	18 05.50	-2.9X
CFA		136.93	252	ePKPd	18 11.50	2.4X
ANT		137.19	264	ePKP	18 18.00	8.3X
CEN		137.36	253	e(PKP)	18 08.00	-2.0
RFA		137.47	248	ePKPd	18 06.20	-3.9X
MDZ		137.61	251	e(PKP)	18 12.70	2.3X
NNA		138.50	284	ePKP	18 13.40	0.9
		0.6s	73.30nm			
PT02		138.60	282	ePKP	18 13.80	1.2
FCH		138.86	250	ePKP	18 16.60	3.6X
				e	21 05.50	
PT06		138.91	281	ePKP	18 14.30	1.2
BACH		139.03	250	iPKP	18 16.50	3.5X
PEL		139.17	250	iPKPd	18 15.30	2.1
CHCH		139.21	249	ePKP	18 12.50	-0.8
TACH		139.42	250	iPKP	18 12.50	-1.1
AFR		149.00	78	iPKP	18 33.00	2.8X
		1.2s	160.00nm			
				i	18 37.80	

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
PPT   149.19  78 iPKP  18 34.00   3.5X | HSFM  1.12 302 iPc   42 59.04   0.3 |        1.5s  2580.00nm          6.1mb
       1.2s  185.00nm                   | SLD  1.12 320 iP   42 58.70  -0.1 | ATO   17.96  85 eP   46 49.00  -0.2
                 i      18 38.30        | HKRM  1.12 308 iPc   42 59.22   0.4 | JCT   18.06 103 iPd  46 50.20  -0.2
PAE   149.22  78 iPKP  18 34.00   3.5X | PCL  1.14 317 iPc   42 59.06   0.0 | OCO   18.52  85 iPc  46 57.90   1.8
       1.2s  145.00nm                   | HFHM  1.14 306 iPc   42 59.50   0.4 | PCO   18.77  82 eP   46 59.80   0.7
                 i      18 38.20        | SFL  1.16 311 iPc   42 59.43   0.0 | SIO   19.43  84 iPc  47 05.70  -1.4
PMO   149.46  72 iPKP  18 33.30   2.4X | HJGM  1.17 300 iPc   42 59.10  -0.4 | ATX   19.66 101 iPc  47 08.00  -1.7
                 i      18 38.40        | BPFM  1.18 271 iPc   42 59.23  -0.5 |                S    50 56.00
TPT   149.68  71 iPKP  18 34.20   3.0X | HBTM  1.18 303 ePc   42 59.68   0.0 | TUL   19.82  84 iPc+ 47 09.90  -1.5
       1.2s   90.00nm                   | OCR  1.19 306 iPc   42 59.86   0.0 |        0.8s   884.00nm          6.1mb
                 i      18 38.80        | HCPM  1.20 325 eP   42 59.40  -0.7 |      Z  20s    70.00um          6.5Msz
VAH   149.80  72 iPKP  18 34.20   2.8X | ANZ  1.22 303 iPc   42 59.94  -0.5 |                eS    50 52.00
                 i      18 38.80        | DIL  1.23 300 iPc   42 59.94  -0.7 | GBO   20.32  84 iPc  47 15.20  -1.4
RUV   149.98  72 iPKP  18 35.00   3.3X | CDC  1.24 311 iPc   43 00.46  -0.3 | RLO   20.40  83 iPc  47 16.00  -1.5
       1.2s   30.00nm                   | CSR  1.26 306 iPc   43 00.54  -0.6 | BHO   20.64  88 iP   47 21.00  -1.0
                 i      18 39.40        | GHS  1.26 314 iPc   43 00.82  -0.4 | HKT   21.42 100 iPc  47 27.40  -0.5
     S.D. = 1.1  on 420 of 487 obs.     | CBC  1.29 304 iPc   43 00.88  -0.8 | FFC   22.41  29 eP   47 36.00  -1.7
                                        | HSPM  1.31 313 iPc   43 01.31  -0.8 | SIT   23.15 339 eP   47 46.20   1.4
& MAY  02, 1983  23h 42m 37.76s         | PKC  1.33 304 iPc   43 01.54  -0.7 | OLY   23.36  83 eP   47 46.50  -0.6
  36.219 N            120.317 W         | HGWM  1.34 307 iPc   43 01.37  -1.0 | POW   23.48  81 eP   47 47.50  -0.8
  DEPTH =  10.2km  (geophysicist)       | MTR  1.35 287 iPc   43 01.75  -0.8 | FVM   23.86  77 eP   47 51.00  -1.0
  6.3mb (108 obs.)  6.5Msz ( 25 obs.)   | CMPM  1.39 325 ePc   43 02.21  -1.0 | RSON  24.04  44 eP   47 51.90  -1.7
 CENTRAL CALIFORNIA                ( 39) | JRRM  1.41 307 iPc   43 02 41  -1.0 | LST   24.58  80 ePc  47 59.80   0.8
      <GS>. Forty-five people injured   | ADR  1.41 312 iPc   43 02.68  -0.8 | IIC   24.70 126 iP   48 00.00  -0.6
      and estimated 31 million dollars  | CBO  1.42 309 iPc   43 02.66  -0.9 | ELC   24.88  78 eP   48 00.70  -1.1
      damage in the Coalinga area.      | EUC  1.46 305 iPc   43 03.23  -0.9 | IIM   25.07 127 iP   48 02.20  -1.9
      Maximum intensity VIII. Some      | ARN  1.49 319 iPc   43 03.93  -0.7 | IIP   25.23 126 iP   48 07.00   1.4
      damage at Avenal and other        | COE  1.50 314 iPc   43 04.21  -0.5 | LHC   25.81  52 eP   48 08.50  -2.0
      surrounding communities. Felt     | MHC  1.54 317 iPc   43 04.70  -0.8 |        0.9s   561.00nm          6.3mb
      from Los Angeles to Sacramento    | GCC  1.58 301 iPc   43 04.80  -0.9 | IIT   25.86 126 iP   48 13.00   1.5
      and from San Francisco to Reno.   | WKTM  1.58 105 iPd   43 05.40  -0.5 | PWLA  26.19  83 eP   48 12.50  -1.7
                                        | ISA  1.60 110 eP   43 05.80  -0.3 | RSCP  28.05  81 eP   48 29.30  -1.9
PARM   0.04 326 iPc   42 40.83   1.0 |                eS    44 03.90 | VHO   28.18 126 iP   48 36.00   3.4
PCRM   0.16 217 iPd   42 42.23   0.8 | SYP  1.71 171 iP   43 07.70  -0.2 | AAM   28.87  67 ePd  48 37.60  -0.8
PRCM   0.25 279 iPd   42 44.01   0.9 | JAS  1.73 357 ePc   43 07.50  -0.5 | TKL   29.48  80 eP   48 42.30  -1.8
CTM    0.29 183 iPd   42 44.98   1.1 | CWC  1.82  82 iP   43 09.30  -0.2 | KDC   30.28 326 eP   48 53.20   2.4
PRI    0.29 255 iPd   42 45.40   1.5 | SBC  1.84 164 iP   43 09.70   0.1 | PME   31.17 334 eP   49 00.50   1.8
PKF    0.35 193 iPd   42 46.19   1.3 | TIN  1.88  63 iP   43 10.60   0.3 |        1.0s   200.00nm          6.0mb
PTV    0.35 251 iPd   42 46.05   1.1 | VPEM  2.04  97 iPd   43 12.70   0.0 |      Z  20s    50.00um          6.2Msz
PHGM   0.37 202 iPd   42 46.65   1.3 | BKS  2.26 318 ePc   43 14.40  -1.3 | PMR   31.19 334 P    49 02.00   3.2
MOP    0.39 270 iPd   42 46.87   1.2 |                eS    43 42.00 | NAV   31.53  76 eP   49 00.00  -2.1
GHC    0.39 184 iPd   42 46.70   1.0 | NWRM  3.03 318 ePc   43 25.00  -1.6 | MRG   31.83  71 iPc  49 03.80  -1.0
PHAM   0.39 190 iPd   42 46.97   1.2 | SDW  3.10 120 iPc   43 25.90  -1.8 |                eScS  59 18.00
PIVM   0.43 224 iP    42 47.82   1.3 | RMT  4.13 334 iPd   43 41.60  -0.6 | BLA   31.84  76 iP+  49 03.00  -1.9
WKR    0.43 201 iPd   42 47.85   1.2 | WDC  4.69 339 ePd   43 48.40  -1.8 |        1.0s   175.00nm          5.9mb
HVC    0.43 291 iPd   42 47.45   0.8 | LGBM  5.32 345 ePd   44 03.00   3.6 |                iPP   50 10.00
PMRM   0.44 171 iPc   42 47.81   1.1 | FHC  5.40 329 ePd   44 00.60   0.3 |                iS    54 12.00
PAGM   0.49 174 iPc   42 48.55   0.8 | GLA  5.52 123 iPc   43 58.50  -3.5 | COM   31.98 121 iP   49 13.00   6.6
PMCM   0.50 185 iPc   42 48.81   1.0 | BKU  6.17  66 ePd   44 10.50  -0.9 | OSB   32.34  83 eP   49 07.50  -1.7
PSAM   0.50 247 iPd   42 48.59   0.7 | MSU  6.88  68 eP   44 20.50  -0.8 | DHN   32.89  65 eP   49 10.60  -3.4
BTW    0.50 281 ePc   42 48.57   0.6 | DUG  7.12  54 eP   44 24.80   0.2 | INK   32.97 351 ePc  49 15.00   0.7
PTRM   0.57 171 iPc   42 49.91   0.6 | MOUT  8.25  51 ePn   44 41.80   1.2 |        1.3s   929.00nm          6.6mb
BMSM   0.58 319 iPc   42 50.32   0.7 | COR  8.66 346 iPc   44 48.00   2.1 | ZIN   33.01  83 eP   49 14.00  -1.1
LRC    0.59 273 iPc   42 49.98   0.3 | BEI  8.86  46 ePn   44 50.70   1.7 | COL   33.06 339 iP   49 14.60  -0.6
LRV    0.60 290 iPc   42 50.51   0.6 | VGB  9.29 358 eP   44 57.50   2.8 |        1.4s   357.00nm          6.1mb
PSHM   0.63 187 iPc   42 51.15   0.7 | PNO  9.46   7 ePnc  44 59.30   2.4 |      Z  21s    78.80um          6.4Msz
LLA    0.64 308 iPc   42 51.00   0.4 | TMI  9.58  40 ePn   45 00.60   1.7 |                eS    54 38.00
PANM   0.65 228 iPc   42 51.44   0.7 | SHW  10.07 352 e(P)  45 08.50   3.0 | CVL   33.23  74 eP   49 15.50  -1.4
SBT    0.68 296 iPc   42 51.72   0.5 | IMW  10.50  40 ePd   45 13.50   1.9 | SVW   33.41 329 eP   49 19.00   0.7
PJLM   0.69 259 iPc   42 52.00   0.6 | BDW  10.57  48 ePd   45 13.30   0.8 | NA12  33.68  74 eP   49 19.00  -1.9
BPIM   0.74 242 iPc   42 52.46   0.2 | LON  10.58 354 ePc   45 14.00   1.5 | INY   34.17  66 eP   49 23.90  -1.2
PBYM   0.74 237 iPc   42 52.86   0.6 | LRM  11.28  29 ePd   45 23.00   0.9 | GCG   34.24 121 eP   49 27.50   1.4
EMT    0.77 305 iPc   42 53.51   0.8 | ALO  11.36  92 ePc   45 24.00   0.7 |                eS    54 59.00
SHG    0.78 285 iPc   42 53.14   0.2 | ANMO  11.36  92 eP   45 25.00   1.7 | TTA   34.56 332 eP   49 29.00   0.7
BVL    0.79 297 iPc   42 53.58   0.5 | GMW  11.47 352 eP   45 23.30  -1.2 |        1.0s   180.00nm          5.9mb
PMGM   0.80 192 iPc   42 53.66   0.3 | NEW  12.27  10 eP   45 36.00   0.7 | OTT   34.60  61 eP   49 27.00  -1.7
EKH    0.82 303 iPc   42 54.22   0.6 |                e    45 40.50 |        1.0s    89.00nm          5.6mb
BSCM   0.85 299 iPc   42 54.94   0.8 |                e    49 07.00 | HIL   34.60 251 P    49 31.00   2.0
PRS    0.86 278 iPc   42 54.80   0.5 | GOL  12.30  69 ePd-  45 37.50   1.5 | SOR   34.90 102 iP   49 30.00  -1.6
PCGM   0.86 204 iPc   42 55.02   0.7 | GLD  12.42  69 eP   45 39.50   1.9 |        1.2s   140.00nm          5.7mb
PBRM   0.87 220 iPc   42 55.35   0.8 | LHD  12.53  15 iPc   45 41.40   2.5 | PTN   35.14  62 eP   49 31.40  -2.0
BLRM   0.89 300 iPc   42 55.59   0.8 |                iS    49 18.70 | HPO   35.33 251 e(P) 49 36.50   1.3
PAPM   0.90 250 iPc   42 55.59   0.5 | MCW  12.59 352 eP   45 41.40   1.8 | KKH   35.34 252 P    49 37.00   1.7
BJOM   0.90 297 iPc   42 55.12   0.1 | PGC  12.64 350 eP   45 41.60   1.5 | LPS   35.39 120 iPc  49 37.00   1.1
FRI    0.91  32 iPd   42 54.50  -0.7 | LDM  12.77  15 iPc   45 44.70   2.7 |                ePP   51 04.00
JHC    0.93 291 iPc   42 55.71   0.3 |                eS    49 12.70 |                eS    55 16.00
BCGM   0.96 301 iPc   42 56.73   0.7 | PNT  13.10   2 eP   45 48.00   1.6 | RSNY  35.47  62 ePc  49 34.90  -1.2
HJSM   0.99 307 iPc   42 56.77   0.3 | RXF  13.20  15 iPc   45 49.40   1.6 | APH   35.53  63 iPc  49 34.50  -2.2
BHSM   1.00 278 iPc   42 57.07   0.4 |                eS    49 23.30 | IMA   35.65 337 eP   49 38.20   0.6
BVYM   1.03 301 iPc   42 57.49   0.2 | RSSD  14.72  53 ePd  46 07.40  -0.6 |        1.0s   285.00nm          6.1mb
LTR    1.04 310 iPc   42 57.57   0.2 | PHC  15.36 343 eP   46 18.50   2.5 | PRIN  35.73  69 eP   49 37.00  -1.4
PSEM   1.04 201 iPc   42 57.44   0.1 |        1.4s   219.00nm          5.3mb | GPD   35.83  68 ePc  49 38.00  -1.3
SAO    1.06 301 iPc   42 57.80   0.1 | SES  15.68  22 eP   46 21.00   0.8 | KIP   35.92 256 eP   49 42.50   2.3
HSLM   1.06 324 iPc   42 56.91  -0.8 | ACO  17.04  82 eP   46 38.50   0.9 |      Z  20s    20.60um          5.9Msz
BSRM   1.07 295 iPc   42 57.91   0.1 |        1.0s  1220.00nm          6.0mb | HON   35.97 256 ePc  49 43.20   2.6
PKH    1.08 306 iPc   42 59.00   0.9 | EDM  17.69  14 eP   46 44.50  -1.2 | MNT   36.07  60 iPd  49 39.40  -1.8
PNC    1.12 288 iPc   42 58.66  -0.1 | RRO  17.82  86 eP   46 50.00   2.6 |        1.0s    69.00nm          5.5mb
```

02d 23h

LHX	36.55	66	eP	49	44.00	-1.3		1.4s	1110.00nm		6.8mb		0.7s	315.00nm		6.5mb
DVT	37.12	61	eP	49	47.90	-2.2	PAE	60.32	212	iP	52	50.80	1.8	EBH	73.47	31	ePc	54	11.80	-0.1
MD5	37.24	67	eP	49	50.30	-0.8		1.4s	1640.00nm		7.0mb				1.0s	634.00nm		6.6mb
NKI	37.60	312	e(P)	49	55.00	1.1	RKT	60.62	196	iP	52	52.20	1.2	EDU	73.48	31	eP	54	11.60	-0.3
BNH	37.80	62	eP	49	53.40	-2.4		1.3s	690.00nm		6.6mb				0.7s	93.00nm		6.0mb
WES	37.98	65	eP	49	56.70	-0.6	REY	61.52	30	eP	52	57.30	0.6	DMU	73.50	35	iPc	54	11.70	-0.4
ANM	38.99	331	eP	50	06.50	1.0	TIK	62.17	340	iPc	53	00.00	-1.0		0.8s	630.00nm		6.7mb
HNME	39.97	59	eP	50	12.00	-1.8		1.1s	370.00nm		6.5mb					ePcP	57	34.60
MBC	40.12	0	iPc	50	16.20	1.5			eS	01	27.00			OFUJ	73.64	307	P	54	12.60	-0.6
	1.2s	650.00nm		6.2mb					eScS	02	42.00			AOMJ	73.66	308	P	54	12.00	-1.2
PO0	40.44	61	eP	50	16.50	-1.3			ePcP	53	44.00			DCN	73.68	35	iPc	54	12.80	-0.3
			e	52	19.00				ePP	55	18.00				1.1s	780.00nm		6.7mb
EMM	40.46	61	eP	50	17.40	-0.5	AKU	62.31	27	iP+	53	02.00	0.0			ePcP	57	37.00
SCH	40.72	46	ePd	50	18.30	-1.7		1.3s	208.00nm		6.2mb			SOD	73.73	13	iP	54	12.30	-0.9
	1.0s	271.00nm		5.9mb					e	56	24.90					i	54	17.20
FRB	41.46	32	iPc	50	26.00	0.2	NNA	63.08	131	eP	53	06.50	-1.2	EAU	73.76	32	iPc	54	13.40	-0.2
	0.8s	371.00nm		6.2mb				0.6s	43.30nm		5.8mb				1.0s	284.00nm		6.3mb
SJS	41.99	119	eP	50	32.00	1.1	KHE	63.41	0	iPc	53	09.00	-0.1	EDI	73.82	31	ePc	54	13.80	-0.1
ADK	42.33	310	ePd	50	34.20	1.1		1.3s	780.00nm		6.7mb				0.8s	366.00nm		6.5mb
ILT	45.17	333	eP	50	57.00	1.0		Z 14s	80.00um		7.0MszX			EBL	73.98	32	ePc	54	14.80	0.0
	Z 18s	24.00um		6.2Msz				N 14s	65.00um						0.9s	350.00nm		6.4mb
	N 18s	22.00um						E 14s	20.00um					DLE	74.05	35	iPc	54	15.00	-0.3
	E 14s	22.00um							iS	01	41.00				1.2s	1040.00nm		6.7mb
		eSS	00	56.00					eSPP	02	10.00					ePcP	57	37.60
		isP	51	15.60					eSSS	08	42.00			ESY	74.06	31	ePc	54	15.20	-0.1
		ePP	52	48.00					ePP	57	08.00				0.8s	146.00nm		6.1mb
		iS	57	39.00			PT06	64.82	132	eP	53	16.50	-2.6	ESK	74.22	32	iPc	54	15.70	-0.5
SMY	47.91	312	eP	51	19.20	1.4	KUR	66.54	310	iP	53	29.00	-0.8		0.9s	167.00nm		6.1mb
Z 20s	15.00um		6.0Msz					7.0s	6000.00nm		6.9mb X					e	57	41.20
GDH	48.45	26	iPd	51	22.50	0.8			iS	02	22.00			EKA	74.22	32	Pc	54	15.80	-0.5
	1.0s	60.00nm		5.6mb					eSS	06	42.00				1.1s	118.00nm		5.8mb
		i	53	20.00					ePcP	53	53.00			ECK	74.34	32	ePc	54	16.40	-0.5
		iS	58	25.00					ePP	56	02.00				0.9s	127.00nm		5.9mb
SJG	50.80	96	iP	51	38.90	-1.6	YAK	67.14	331	iPc	53	32.70	-0.7			e	57	41.50
	1.2s	164.00nm		5.3mb				1.1s	590.00nm		6.7mb			ECB	74.53	36	iPc	54	17.90	-0.2
Z 22s	34.10um		6.3Msz				Z 15s	17.30um		6.4MszX				ETA	74.59	35	iPc	54	18.50	0.1
		eS	58	55.00					iS	02	28.30				1.2s	1330.00nm		6.8mb
LGN	51.33	108	eP	51	34.80	-9.6			iPS	02	52.70			APA	74.64	10	iPc	54	18.60	0.1
CHN	51.45	116	iP	51	44.00	-1.5			isP	53	51.30				1.4s	210.00nm		6.0mb
BMG	51.92	112	iP	51	47.00	-2.0			iPP	56	01.70				Z 15s	35.00um		6.8MszX
UAV	52.39	109	eP	51	53.80	1.1			iPPP	57	35.70				N 15s	12.00um		
SDV	52.61	108	eP	51	53.40	-0.9	RAR	68.22	220	P	53	40.00	-0.6		E 15s	14.00um		
TOV	52.69	107	eP	51	55.00	0.2			S	02	48.00					iS	03	52.00
BOG	52.81	115	iP	51	55.00	-1.0	YSS	68.78	313	iPd	53	43.30	-0.6			iSKS	04	16.00
		iS	59	15.00				1.1s	380.00nm		6.5mb					eSS	08	39.00
PAG	55.52	95	eP	52	13.00	-2.6		Z 18s	7.50um		6.0Msz					iPcP	54	39.00
FDF	56.65	96	eP	52	20.00	-3.7		N 18s	6.00um							iPP	57	10.00
PET	56.98	315	eP	52	25.00	-0.5		E 18s	11.20um							iPPP	58	55.00
	1.0s	370.00nm		6.4mb					iS	02	49.00			ECP	74.85	36	iPc	54	19.70	-0.2
Z 20s	8.30um		5.8Msz						ePS	03	14.00				1.1s	1070.00nm		6.8mb
N 20s	5.62um								eScS	03	44.00			YAMJ	75.21	307	P	54	22.20	-0.1
E 20s	11.20um								eSS	07	14.00			NB2	75.35	22	P	54	22.60	-0.1
		eSS	04	12.00					ePcP	54	03.00				0.9s	84.60nm		5.8mb
		ePP	54	40.00					ePP	56	24.00			BOD	75.76	333	iPc	54	25.20	0.2
TPT	57.09	212	iP	52	28.50	1.9	NEM	68.90	309	P	53	44.00	-0.6		1.1s	460.00nm		6.5mb
	1.4s	1140.00nm		6.7mb			KUSJ	69.56	309	P	53	49.00	0.3	ANT	75.98	134	eP+	54	27.20	0.5
RUV	57.17	212	iP	52	29.10	1.9	AFI	69.59	234	eP	53	50.00	0.7			iS	04	13.20
	1.4s	1960.00nm		6.9mb					S	03	12.00			KAKJ	76.24	305	P	54	27.00	-1.1
PMO	57.23	212	iP	52	29.50	1.9			e	06	06.00			TSK	76.28	305	iPd	54	27.30	-1.1
	1.4s	1140.00nm		6.7mb					eSS	07	28.00			NIIJ	76.42	306	P	54	29.00	-0.1
SEY	57.28	327	iPc	52	27.20	-0.3	ASAJ	70.32	311	P	53	50.00	-3.4	AIK	76.46	307	P	54	29.00	-0.3
	1.3s	650.00nm		6.5mb			HOOJ	70.83	309	P	53	55.00	-1.5	KJF	76.78	14	iPc+	54	30.40	-0.2
		iS	00	22.70			KEV	71.67	11	iP	54	00.00	-1.0		0.9s	181.00nm		6.2mb
		isP	52	43.00				1.0s	162.00nm		6.1mb					eS	04	18.00
		ePcP	53	22.70					eS	03	20.00					eScS	04	52.00
		ePPP	55	59.70					eScS	04	08.00					eSS	08	56.00
VAH	57.32	212	iP	52	30.20	2.0			eSS	08	04.00					eSSS	12	36.00
	1.4s	1710.00nm		6.9mb					eSSS	11	08.00					ePP	57	26.00
TRN	58.77	100	eP	52	38.50	0.0			ePP	56	44.00			TOK	76.81	305	eP	54	34.00	2.7
	1.3s	162.00nm		6.0mb					ePPP	58	28.00					e	54	46.00
MGD	58.87	324	iPc	52	38.60	0.0	SAP	71.69	310	eP	54	03.00	1.4	HFS	76.82	22	iP	54	30.60	-0.3
	1.0s	570.00nm		6.6mb					eS	03	25.00				0.8s	104.00nm		6.0mb
Z 14s	20.00um		6.4MszX				LPB	72.01	127	Pc+	54	04.00	-0.3		Z 18s	39.00um		6.8Msz
N 16s	15.00um							1.0s	100.00nm		5.9mb			KYS	76.83	304	eP	54	33.40	1.9
E 16s	23.00um								S	03	24.00			DDR	77.01	305	eP	54	32.20	-0.3
		iS	00	46.00			MRRJ	72.20	310	P	54	04.00	-0.6	CHJJ	77.11	305	P	54	32.60	-0.4
		eScS	02	24.00			NRI	72.63	350	iPc	54	05.40	-1.4	VLA	77.31	314	iPc	54	34.00	0.1
		esP	52	51.00				1.8s	270.00nm		6.0mb				8.0s	********nm		7.0mb X
		ePcP	53	22.00				Z 16s	26.00um		6.6MszX				Z 18s	10.70um		6.2Msz
		ePPP	56	13.00				N 16s	16.00um						N 18s	12.00um		
GUV	59.12	104	iPc	52	39.00	-2.0		E 20s	16.00um						E 18s	6.00um		
SKR	59.25	313	iPc	52	41.00	-0.4			iS	03	29.00					iS	04	25.00
	1.0s	240.00nm		6.3mb					ePcP	54	23.00					ePS	05	03.00
		iS	00	51.60			VAL	73.13	37	iP	54	10.10	0.2			iPPS	05	27.00
PPT	60.23	212	iP	52	50.40	2.0	EAB	73.16	32	iPc	54	09.60	-0.5			iSS	09	29.00
	1.4s	1420.00nm		6.9mb				0.8s	257.00nm		6.4mb					ePP	57	29.00
AFR	60.29	213	iP	52	50.70	1.9	ELO	73.24	31	iPc	54	10.40	-0.2	OYM	77.31	305	eP	54	34.10	-0.1

MAT		77.34	306	iPc	54 34.30	0.0
		1.1s	430.00nm			6.5mb
				eS	04 23.00	
MTMJ		77.58	306	P	54 35.40	-0.3
MDJ		77.68	317	Pc	54 36.00	0.0
				iS	04 31.00	
				PP	57 37.00	
KTJ		77.69	304	P	54 35.00	-1.2
SUF		77.79	15	iP	54 36.60	0.3
		0.9s	178.00nm			6.2mb
YJA		77.81	129	eP	54 37.60	0.1
IIDJ		78.15	305	P	54 38.70	-0.1
UPP		78.18	20	iPc	54 38.30	-0.1
				iS	04 29.00	
				i	54 39.40	
				iPP	57 37.00	
TKY		78.19	306	P	54 39.00	0.0
MUD		78.24	26	iP	54 40.50	1.7
		1.0s	84.00nm			5.8mb
VUN		79.06	238	iPc	54 44.80	0.9
TSRJ		79.39	306	P	54 45.00	-0.5
NUR		79.42	17	iP	54 45.80	0.6
		0.9s	226.00nm			6.2mb
				eS	04 40.00	
				ePPS	05 28.00	
				eSS	09 44.00	
				eSSS	13 20.00	
				ePP	57 44.00	
SLA		79.69	131	ePd	54 46.00	-1.4
FLN		79.93	36	iPc	54 48.70	0.5
COP		79.98	25	iPc	54 49.20	0.9
		0.8s	101.00nm			5.8mb
	Z	18s	46.70um			6.9Msz
				iS	04 57.00	
GRR		80.01	36	iPc	54 49.40	0.8
DBN		80.01	31	iP+	54 50.00	1.5
	Z	22s	26.70um			6.5Msz
				iS	04 59.00	
				ePS	05 44.00	
				iSS	10 00.00	
				iSSS	14 22.00	
				iPP	57 53.00	
WIT		80.08	29	eP	54 51.50	2.6
		1.0s	406.00nm			6.4mb
OWA		80.13	305	P	54 50.00	0.5
LPF		80.17	36	iPc	54 49.90	0.4
LDF		80.22	36	iPc	54 50.20	0.5
WKYJ		80.43	305	P	54 51.20	0.0
CN2		80.48	318	iPc	54 50.20	-1.0
				iS	04 59.00	
				eSS	10 17.00	
				pP	54 55.00	15kmX
				sP	54 57.00	
				ePP	57 59.00	
UCC		80.64	32	Pd+	54 52.60	0.7
				S	05 02.00	
				PP	58 00.00	
				PPP	59 55.00	
TLL		80.76	138	iPd	54 52.60	-0.5
WTS		80.76	30	iPc	54 53.60	1.1
		1.3s	230.00nm			6.0mb
PTO		80.82	45	eP	54 53.90	0.9
				iS	05 00.00	
HAM		80.84	28	iPc	54 54.90	2.0
				iS	05 09.60	
YONJ		81.23	307	P	54 55.30	0.0
DOU		81.26	32	Pc+	54 55.90	0.7
				S	05 05.00	
				i	54 57.40	
				PP	58 07.00	
ENN		81.32	31	iPc	54 56.50	1.0
		1.0s	212.00nm			6.1mb
				ePP	57 59.50	
PUL		81.33	15	iPc	54 56.00	0.7
		1.4s	420.00nm			6.3mb
	Z	16s	33.00um			6.8MszX
	N	16s	30.00um			
	E	16s	10.00um			
				iS	05 07.00	
				ePS	05 56.00	
				eSS	10 20.00	
				ePP	58 04.00	
				ePPP	59 52.00	
MFF		81.61	37	iPc	54 57.60	0.5
BNS		81.69	30	eP	54 58.50	1.1
		1.3s	0.32nm			3.2mb X
				iS	05 17.20	
				i	55 58.20	
				iPP	58 04.80	
LIS		82.07	47	iPc	55 00.10	0.5
				eS	05 16.50	
SHK		82.14	307	ePc	55 00.20	0.1
CYA		82.27	134	ePc	54 59.50	-1.2
BGG		82.34	31	iP	55 01.00	0.2
LSF		82.68	36	iPc	55 03.10	0.4
TNS		82.78	30	ePc	55 03.70	0.5
				eS	05 25.50	
				ePP	58 19.20	
JACH		82.83	140	iPc	55 03.60	0.0
BRL		82.87	27	eP	55 05.50	2.1
BRN		82.88	27	iPc	55 05.20	1.7
				eS	05 28.00	
				ePP	58 15.00	
CEN		82.96	138	eP	55 05.00	0.7
TCF		82.97	36	iPc	55 04.80	0.6
		1.4s	306.00nm			6.3mb
SSF		83.02	35	iPc	55 05.10	0.7
LOR		83.03	35	iPc	55 05.40	0.9
		1.4s	429.00nm			6.4mb
BGF		83.08	36	iPc	55 05.40	0.7
AVF		83.14	35	iPc	55 05.40	0.4
PEL		83.15	140	iPc+	55 05.00	-0.2
		1.7s	577.00nm			6.5mb
MZF		83.20	36	iPc	55 05.90	0.5
LFF		83.23	38	iPc	55 06.40	0.9
CFA		83.27	137	ePd	55 06.20	0.4
LGR		83.31	41	iPc	55 07.50	1.5
				iS	05 26.50	
				iPP	58 21.50	
RJF		83.35	37	iPc	55 06.80	0.6
GWF		83.40	32	iPc	55 06.90	0.5
SHNJ		83.41	308	P	55 06.90	0.3
LNV		83.41	141	iPc	55 08.50	2.1
BACH		83.41	140	eP	55 05.00	-1.5
TACH		83.42	140	iPd	55 06.50	0.0
SMF		83.48	35	iPc	55 07.00	0.2
FCH		83.50	140	iPc	55 07.50	0.2
HAU		83.59	33	iPc	55 08.00	0.6
		1.2s	315.00nm			6.4mb
LPO		83.64	38	iPc	55 08.60	1.0
IRK		83.66	334	eP	55 07.40	-0.2
		2.2s	500.00nm			6.3mb
	Z	20s	26.80um			6.6Msz
	N	22s	17.70um			
	E	19s	10.30um			
				eS	05 26.00	
				ePS	06 24.00	
				eSPP	06 44.00	
				esP	55 23.50	
CDF		83.68	32	iPc	55 08.60	0.7
CLL		83.70	27	iPc	55 08.40	0.6
		1.3s	310.00nm			6.4mb
				eSKS	05 30.00	
				PKKP	13 25.00	
				i	55 21.00	
MOX		83.71	28	iPc+	55 08.50	0.6
		1.6s	494.00nm			6.5mb
	Z	15s	46.00um			7.0MszX
	N	18s	22.00um			
	E	18s	46.00um			
				iS	05 30.00	
				iPS	06 28.00	
				eSS	11 25.00	
				e(PKKP	13 27.00	
				e	21 26.00	
				iPP	58 20.00	
CHCH		83.78	140	iPd	55 09.50	1.1
ECH		83.78	32	iPc	55 08.70	0.4
BUH		83.89	31	ePc	55 09.70	0.8
CAF		83.89	37	iPc	55 09.60	0.6
MDZ		83.91	139	i(P)	54 55.00	-14.1
BSF		83.92	33	iPc	55 09.60	0.5
TEN		83.93	59	iP	55 11.80	2.5
				eSKS	05 20.60	
				eS	05 25.40	
				ePS	06 11.10	
				iPcP	58 26.40	
BAF		84.00	33	iPc	55 10.00	0.5
HOF		84.07	29	iPc	55 10.40	0.6
		1.5s	600.00nm			6.6mb
				eS	05 34.00	
STU		84.22	31	iPc+	55 11.00	0.5
		1.0s	140.00nm			6.1mb
TOL		84.24	44	iP+	55 11.00	0.2
		0.8s	16.00nm			5.3mb
				iSKS	05 31.00	
				iS	05 37.00	
				iPS	06 28.00	
				iSS	10 22.00	
				eSSS	14 40.00	
				i	55 19.00	
				iPP	58 25.00	
GRFO		84.31	29	ePc	55 12.00	1.1
GRF		84.31	29	iPc	55 12.40	1.4
		1.4s	927.00nm			6.8mb
	Z	18s	45.00um			6.9Msz
				eS	05 36.30	
				ePP	58 28.50	
EPF		84.40	39	iPc	55 12.30	0.7
BRG		84.40	27	iPc	55 12.30	0.9
		1.1s	350.00nm			6.5mb
				eSKS	05 37.00	
				P'P'	21 25.00	
				i	55 13.50	
				i	55 27.10	
				ePP	58 36.00	
KUMJ		84.60	307	P	55 11.80	-0.9
SLE		84.70	32	eP+	55 13.30	0.3
ZUL		84.88	32	eP+	55 14.40	0.5
MOY		85.29	336	iPc	55 17.40	1.7
		1.5s	460.00nm			6.5mb
SFS		85.31	48	iPc	55 18.00	1.9
				iS	05 44.00	
				ePS	06 12.00	
				eSS	10 55.00	
				ePP	58 36.00	
PRU		85.35	27	iPc	55 17.00	0.9
		1.2s	231.00nm			6.3mb
	Z	14s	33.60um			6.9MszX
	N	20s	16.80um			
	E	20s	33.00um			
				iS	05 42.00	
				iPS	06 40.00	
				e	55 30.20	
				PP	58 36.00	
WET		85.40	29	eP	55 17.30	0.9
	Z	16s	43.70um			6.9MszX
				e	58 38.00	
KAGJ		85.42	306	P	55 16.00	-0.8
BAO		85.47	113	P	55 16.50	-0.8
DIX		85.53	34	eP+	55 18.20	0.8
FUR		85.55	30	eP	55 18.30	1.1
		1.5s	529.00nm			6.5mb
	Z	19s	54.00um			7.0Msz
RFA		85.57	140	ePc	55 17.00	-0.4
ZAK		85.58	334	iPc	55 18.00	0.8
		1.1s	300.00nm			6.4mb
				iS	05 47.00	
				ePS	06 48.00	
LLS		85.62	32	eP+	55 18.60	0.8
KHC		85.68	28	P	55 19.00	1.1
	Z	18s	39.50um			6.8Msz
	N	18s	31.30um			
	E	18s	28.40um			
				S	05 44.00	
				PS	06 50.00	
				e	55 34.50	
				PP	58 39.60	
MMK		85.80	33	eP+	55 20.00	1.2
GUA		85.90	284	eP+	55 18.50	-0.9
		1.3s	600.00nm			6.6mb
GUMO		85.91	284	eP	55 19.50	0.1
				eS	05 53.50	
PJG		85.91	284	eP	55 18.80	-0.6
EBR		86.06	41	eP	55 21.00	1.2
				eS	05 46.00	
				ePP	58 38.00	
PVC		86.10	245	iPc	55 21.00	0.8
ORO		86.13	34	eP	55 20.50	0.2
		1.4s	110.00nm			5.8mb
TMA		86.16	33	eP+	55 21.20	0.8
MAL		86.19	46	iPc	55 21.30	0.8
				iS	05 47.00	
				iPS	06 51.00	
				iSSS	15 04.00	
				iPP	58 45.00	
OGA		86.48	31	eP	55 22.80	0.8
MOS		86.49	12	iPc	55 22.00	0.4
		8.0s	9600.00nm			7.0mb X
				eSKS	05 47.00	
				eS	05 59.00	

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			ePS	07	08.00						PS	07	20.00						IPP	59	30.00		
			iPP	58	48.00						SS	12	08.00			COZ	92.78	24	iPd	55	52.00	0.3	
KMR	86.77	29	eP+	55	23.90	0.7		SRO	88.54	26	iPc	55	32.50	0.8		CMP	93.05	24	ePd	55	46.00	-6.8	
			e	06	06.50						iS	06	01.00			SGO	93.40	32	IPd	55	56.00	1.6	
			ePP	58	49.00						i	56	51.00				1.3s		120.00nm			6.1mb	
OBN	86.85	13	iPc	55	23.40	0.0					i	59	00.80			BUC1	94.20	23	eP	55	56.50	-1.5	
	1.0s		160.00nm			6.2mb		TRI	88.54	30	e(P)	55	37.50	5.8		ERC	94.23	35	e(P)	56	00.00	1.8	
Z	16s		27.00um			6.7MszX		LJU	88.58	30	eP	55	32.40	0.5		ORI	94.31	32	eP	56	00.00	1.4	
N	18s		21.00um								eS	05	59.40			SKO	94.68	28	IP	56	01.00	0.7	
E	18s		14.00um					ITR	88.64	102	eP	55	31.90	-0.7					iS	06	35.00		
			iSKS	05	48.00						e	55	37.70						i(PS)	08	36.00		
			iS	05	54.00						e	56	15.60						iPP	59	49.00		
			iSP	06	56.00						i	56	29.60			VTS	94.78	26	iPd	56	01.00	0.3	
			iSSS	15	16.00						i	56	39.20			PVL	94.98	25	iPd	56	03.00	1.4	
			isP	55	39.00			JOS	88.73	25	iPc	55	33.00	0.4		OHR	95.18	28	IP	56	03.00	0.3	
			iPP	58	50.00			PRT	88.88	33	eP	55	30.00	-3.4					iS	06	37.50		
STV	86.90	35	eP	55	24.00	0.0					e(S)	05	58.00			ANP	95.56	307	eP	56	06.00	1.3	
SOB1	86.96	104	iP	55	24.90	0.3		CVF	88.91	35	iPc	55	33.80	0.2		VAY	95.67	27	iPc	56	05.00	0.2	
			e	55	29.10			PSZ	89.01	26	eP	55	36.00	1.9		SIM	95.96	18	eP	56	06.00	-0.1	
NVS	87.00	347	iPc	55	24.00	-0.2		FIR	89.03	33	eP	55	33.00	-1.1					ePP	00	02.00		
	2.3s		850.00nm			6.6mb					eSKS	06	05.00						eSKS	06	42.00		
			iS	05	49.70						eS	06	23.00						eS	07	26.00		
LRG	87.05	36	eP	55	25.40	0.8		BUD	89.07	26	eP	55	34.00	-0.3		WHN	96.09	315	P	56	07.00	0.1	
	0.8s		46.00nm			5.8mb		UZH	89.20	24	iPc	55	35.40	0.6					PP	00	00.00		
FRF	87.11	36	iPc	55	25.30	0.4			1.2s		200.00nm			6.3mb					eSKS	06	37.00		
	0.8s		58.80nm			5.9mb		Z	14s		62.00um			7.2MszX		DIM	96.10	25	iP	56	08.00	1.2	
VG1	87.17	33	eP	55	28.80	3.7		N	14s		16.00um					GTA	96.14	330	Pc	56	07.20	0.0	
KRA	87.19	24	eP	55	25.60	0.4		E	14s		32.00um								SKS	06	45.00		
	1.2s		173.00nm			6.2mb					ePPP	01	05.00						S	07	22.00		
Z	16s		39.30um			6.9MszX					iSKS	06	03.00						SS	13	51.50		
N	22s		34.40um								iS	06	23.00						PP	59	56.40		
E	22s		38.30um								iSP	07	30.00			XAN	96.35	321	Pc	56	08.40	0.3	
			iS	05	54.00						iSS	12	20.00						SKS	06	45.00		
			i	55	30.00						isP	55	50.00						S	07	29.00		
			i	55	39.10						iPP	59	05.00			WMO	96.37	340	Pc	56	09.00	0.9	
			i	55	49.10			HHC	89.74	323	eP	55	39.10	1.4					PP	00	13.00		
			e	58	52.00						SKS	06	10.00						SKS	06	47.00		
LMR	87.21	36	iPc	55	25.80	0.4					S	06	32.00			KDZ	96.38	25	iP	56	09.00	0.9	
	1.0s		76.00nm			5.9mb		TIA	90.34	317	P	55	40.60	0.2		ANN	96.77	16	eP	56	10.40	0.7	
ALM	87.24	45	iPd	55	26.00	0.4					eSKS	06	06.50				8.0s		2500.00nm			6.8mb X	
	0.9s		2.40nm			4.4mb X					S	06	38.80			Z	20s		35.00um			6.8Msz	
N	11s		0.80um								sP	55	53.20			N	20s		40.00um				
E	18s		0.50um					NOU	90.34	242	iPc	55	41.80	1.4		E	20s		35.00um				
			eS	06	02.30			RAB	90.44	265	iP+	55	40.00	-1.1					eSKS	06	42.50		
			iPP	58	53.60			BTO	90.67	324	iPd	55	42.00	0.0		DMK	97.02	23	eP	56	11.00	0.0	
KBA	87.26	30	ePc	55	25.40	-0.4					SKS	06	10.00			LZH	97.18	325	P	56	12.30	0.3	
	1.2s		92.00nm			5.9mb					S	06	37.00				9.0s		3710.00nm			7.0mb X	
			i	55	27.50			BLY	90.69	29	iP	55	43.80	1.9		E	13s		1.90um				
			i	55	39.60			POI	90.73	33	eP	55	42.50	0.5					PP	00	09.00		
SAL	87.26	32	eP	55	26.50	0.9		MNS	90.77	33	eP	55	42.00	-0.2					SKS	06	51.00		
ALI	87.29	43	iP-	55	27.50	1.7		VAO	90.86	118	eP	55	42.20	-0.7					S	07	35.00		
			iS	06	15.50						e	55	48.10						PS	08	53.00		
SVE	87.33	359	iPc	55	26.00	0.3		AQU	91.11	32	e(P)	55	45.00	1.1					SS	14	12.50		
	3.2s		770.00nm			6.4mb X		RMP	91.24	33	iPc	55	40.00	-4.5		PMG	97.51	264	eP	56	14.00	0.6	
			ePPP	00	46.00						iS	06	20.00			QZH	97.61	308	Pc	56	15.00	1.2	
			eSKS	05	50.00						iPS	07	56.00			CTT	97.84	23	eP	56	15.20	0.5	
			eS	06	04.00						iPP	59	20.00			ISK	98.12	23	eP	56	16.70	0.8	
HNR	87.34	256	iP	55	27.50	1.2		RDP	91.29	33	eP	55	45.00	0.2		EZN	98.33	25	iP	56	17.10	0.3	
CTI	87.39	31	iPd	55	27.00	0.6		TIM	91.35	26	iPd	55	45.70	0.9		EDC	98.38	24	iPd	56	17.70	0.6	
VKA	87.43	27	ePc	55	26.50	0.1		LPA	91.55	133	eP+	55	44.00	-1.7		SOC	98.52	15	eP	56	18.00	0.3	
			eSKS	05	55.00			Z	20s		9.22um			6.2Msz		Z	16s		12.00um			6.5MszX	
			e	55	27.90			SSE	91.64	311	Pc+	55	46.90	0.5		N	21s		19.00um				
			e	55	33.90				1.2s		221.00nm			6.4mb		E	20s		16.50um				
			(PP)	58	59.30			Z	14s		9.00um			6.4MszX					ePP	00	20.00		
ARU	87.74	1	iPc	55	27.70	0.1		N	14s		6.80um								eSKS	06	58.00		
	1.6s		330.00nm			6.4mb					S	06	24.00						eS	07	40.00		
Z	18s		19.50um			6.6Msz					sS	06	44.00						ePS	09	16.00		
N	20s		12.00um								eSS	12	17.00						epP	56	24.00	19kmX	
E	15s		14.00um								PP	59	15.00			PYA	98.71	12	eP	56	19.00	0.4	
			ePPP	00	52.00			TIY	91.71	321	eP	55	47.00	0.2			2.0s		220.00nm			6.5mb	
			iSKS	05	55.50						SKS	06	21.00						iSKS	06	56.00		
			eS	06	07.00						sS	06	50.00						iPS	09	18.00		
			eSP	07	10.00			SEM	91.85	347	ePc	55	46.80	-0.3		ATH	99.02	28	iPd	56	21.00	1.0	
			isP	55	43.20						eSKS	06	17.90			Z	20s		27.30um			6.7Msz	
ZST	87.78	27	iPd	55	27.70	-0.3					esP	56	02.40						iPP	00	24.00		
			e(S)	06	09.60						ePP	59	23.30						eSKS	06	56.00		
			i(PP)	58	47.70			DUI	92.13	32	eP	55	51.00	2.5					ePS	09	23.00		
RBL	87.86	30	eP	55	30.50	1.9		NJ2	92.36	313	iPc	55	49.00	-0.7		TLG	99.26	347	eP	56	20.70	-0.5	
IFR	87.95	49	iP	55	29.50	0.1					SKS	06	24.00				1.9s		30.00nm			5.6mb	
ELT	87.96	344	iPc	55	28.20	-0.6					S	06	56.00						ePP	00	27.00		
	1.1s		250.00nm			6.5mb					sP	55	56.00						eSKS	07	03.00		
			iSKS	05	55.00			KIS	92.65	21	iPc	55	51.00	0.2		GRO	99.79	10	iPc	56	24.00	0.5	
BJI	88.04	320	eP	55	29.00	-0.4			9.0s		3100.00nm			6.7mb X			8.0s		2500.00nm			6.8mb X	
N	17s		9.30um								iPPP	01	32.00			Z	22s		15.00um			6.5Msz	
E	20s		10.40um								iSKS	06	24.00			N	22s		38.00um				
			SKS	05	58.00						iS	06	48.00			E	22s		50.00um				
			eS	06	13.00						isP	56	06.50						iSKS	07	05.00		

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PRZ    99.83 346 eP    56 24.00   0.1
        1.0s    30.00nm          5.8mb
                 ePP   00 33.00
                 ePPP  02 45.00
                 eSKS  07 04.00
                 ePS   09 27.00
                 eSS   14 52.00
FRU   100.15 349 ePdiff56 25.20   0.2
        2.5s   240.00nm          6.3mb
      E  22s    19.80um
                 ePP   00 34.00
                 ePPP  02 42.00
                 eSKS  07 04.00
                 eSKS  08 00.00
                 eSP   09 22.00
ANTO  100.34  21 Pdiff 56 27.00   1.1
MAK   100.35   9 ePdiff56 29.00   3.3
        8.0s  1500.00nm          6.6mb X
                 ePP   00 34.00
                 iSKS  07 08.50
                 eSP   09 31.00
BKR   101.02  12 ePdiff56 27.00  -2.0
        1.4s    30.00nm          5.7mb
                 ePP   00 40.00
                 iPS   09 42.00
MTA   101.27  11 ePdiff56 31.60   1.8
      N  20s     8.00um
      E  20s    13.00um
                 ePP   00 40.60
                 ePPP  02 52.60
                 iSKS  07 11.60
                 eSP   09 41.60
NRN   101.29 348 ePdiff56 30.20  -0.2
                 eSKS  07 10.00
CDZ   101.46 322 Pdiff 56 31.00  -0.1
LEN   102.02  12 ePdiff56 34.00   0.5
        7.0s  1400.00nm          6.7mb X
GZH   102.23 311 Pdiff 56 35.00   0.4
BAG   102.26 301 ePdiff56 34.00  -1.1
TAS   102.33 353 ePdiff56 35.00   0.3
        3.0s   280.00nm          6.4mb
      Z  20s    15.40um          6.5Msz
                 ePP   00 50.00
                 eSKS  07 13.00
                 eS    08 21.00
                 ePS   09 58.50
ANR   102.52 350 ePdiff56 36.20   0.7
        3.0s   240.00nm          6.4mb
                 ePP   00 56.40
                 eSKS  07 16.20
                 eS    08 20.60
                 iPS   10 02.20
ERE   102.70  12 ePdiff56 38.00   1.6
SHE   102.85   9 ePdiff56 40.00   3.1
                 iSKS  07 20.00
KSH   103.21 347 ePdiff56 40.00   1.2
                 SKS   07 19.00
GYA   103.53 318 Pdiff 56 41.00   0.5
                 SKS   07 17.00
GRS   103.66  11 iPdiff56 43.00   2.2
                 iPP   00 59.40
                 iPS   10 08.00
SAM   104.18 354 ePdiff56 44.00   1.0
        7.0s  1000.00nm          6.8mb X
                 iPP   01 05.40
                 iSKS  07 26.00
                 iPS   10 15.00
CTA   104.26 255 iPdiff56 45.00   1.3
                 i     00 01.00
                 i     07 26.00
                 i     08 52.00
                 i     09 17.00
                 i     10 12.00
                 i     14 56.00
                 i     59 34.00
GAR   104.51 351 ePdiff56 47.40   2.8
                 eSKS  07 26 40
DAV   104.82 290 ePdiff56 46.00  -0.3
TAB   105.06  11 ePdiff56 50.00   2.9
                 e     01 09.00
DSH   105.12 353 ePdiff56 50.40   3.2
                 ePP   01 08.50
                 eSKS  07 22.50
                 eSP   10 18.50
KUL   105.67 352 ePdiff56 49.20  -0.4
                 ePP   01 17.20
                 eSKS  07 29.50
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                 eS    08 46.70
KHO   105.85 350 ePdiff56 52.40   1.7
                 eSKS  07 32.40
                 ePS   10 32.00
VAN   106.19   1 ePdiff56 55.40   3.5
                 ePP   01 18.00
                 ePPP  03 30.00
                 iPS   10 34.00
                 eSS   16 20.00
ASH   106.19   1 ePdiff56 56.00   4.1
KMI   106.69 320 ePdiff56 55.00   0.3
                 PP    01 21.00
MHI   107.85   0 iPdiff57 03.00   3.5
LSA   108.07 331 ePdiff57 00.80  -0.2
MTN   112.39 270 ePKP  01 15.00  -1.0
NDI   113.37 343 ePKP  01 16.00  -1.6
WB2   113.62 262 ePKP  01 16.30  -2.0
                 i     01 18.60
WRA   113.63 262 PKPd  01 18.20  -0.2
        0.9s    17.80nm
SHI   114.14   7 ePKP  01 19.00  -0.3
BDT   115.12 318 ePKP  01 19.80  -1.4
PCT   115.84 314 ePKP  01 24.00   1.4
ASPA  115.88 259 ePKP  01 22.00  -0.6
SBA   121.64 194 ePKP  01 34.50   2.6
                 eS    13 06.60
POO   123.92 344 ePKP  01 38.00  -0.1
IPM   123.96 307 ePKPd 01 38.80   0.5
BNG   124.20  52 iPKPc 01 38.00  -0.8
        0.9s    40.00nm
SPA   126.03 180 e(PKP)01 41.00   0.1
        1.2s   145.00nm
      Z  20s     4.89um          6.2Msz
                 e     01 45.00
DRV   126.42 209 iPKP  01 41.00  -0.5
PSI   126.74 308 ePKPc 01 35.50  -8.2
GBA   127.69 338 PKP   01 45.00  -0.4
        1.1s    15.00nm
PPI   128.14 304 ePKP  01 46.70   0.4
ARO   129.92  22 iPKP+ 01 51.20   1.4
KOD   130.85 337 ePKP  01 52.00   0.2
AAE   130.87  28 ePKP  01 52.50   0.6
NVL   137.30 159 ePKP  02 02.00   0.0
                 epPKP 02 08.00
                 ePP   04 46.00
                 ePS   15 12.00
MIR   144.05 202 iPKP  02 11.00  -3.1
                 esPKP 02 24.00
SYO   145.31 167 iPKP  02 15.80  -0.4
KRI   147.09  62 iPKPd 02 22.00   1.1
                 ipPKP 02 55.00
                 iSKP  05 44.00
SUR   147.81  95 iPKPc 02 24.30   2.6
        0.6s   200.00nm
      Z  19s    19.90um          6.9Msz
MTD   148.44  60 iPKPc 02 25.00   2.0
                 iSKP  05 49.00
BUL   148.45  68 iPKPc 02 27.00   4.0
                 ipPKP 02 57.00
                 iPP   04 30.00
MAW   148.51 182 ePKP  02 22.00   0.5
        1.3s   110.00nm
SWZ   149.54  83 iPKPc 02 24.00  -0.5
                 i     02 28.00
KIM   149.75  86 iPKPc 02 26.70   1.9
        1.2s   200.00nm
KSR   150.20  79 iPKPc 02 25.80   0.2
                 i     02 31.10
BFS   150.58  81 iPKPd 02 27.00   0.9
        1.0s   600.00nm
HVD   151.02  89 iPKPc 02 29.10   2.5
        1.0s   302.00nm
                 i     02 34.20
BLF   151.03  86 ePKP  02 30.00   3.3
                 i     02 37.00
PRY   151.15  80 iPKPc 02 27.00   0.1
        1.0s   452.00nm
                 i     02 35.00
VIR   151.16  83 ePKP  02 28.50   1.6
PRE   151.17  78 ePKP  02 29.00   2.0
        1.2s     1.04nm
                 i     02 34.50
SLR   151.23  78 iPKPc 02 28.90   1.8
        0.9s   750.00nm
      Z  20s    16.70um          6.8Msz
                 i     02 34.30
BPI   151.24  79 ePKP  02 26.50  -0.7
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                 i     02 33.50
SEK   151.87  83 iPKPc 02 29.50   1.5
                 i     02 32.00
NPA   152.15  46 iPKPc 02 31.00   2.5
        1.0s   160.00nm
                 i     02 37.00
                 e     03 02.00
EVA   152.23  78 ePKP  02 31.50   2.9
                 i     02 35.50
GRM   152.72  94 iPKPc 02 28.00  -0.9
        1.3s   320.00nm
      Z  17s    10.90um          6.7MszX
                 i     02 38.00
CNG   154.57  75 ePKP  02 34.00   2.5
                 i     02 40.00
                 i     02 51.00
                 i(PP) 04 12.00
                 i     05 24.00
                 i     07 25.00
AVY   159.80  35 ePKPc 02 41.00   2.5
      569 obs. associated
```

MAY 26, 1983 02h 59m 59.45± 0.21s
40.465 N ± 1.0km 139.133 E ± 1.2km
DEPTH = 23.0 ± 1.6 km
6.8mb (110 obs.) 7.8Msz (11 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

One hundred four people killed, 163 injured and extensive damage to dwellings, roads and vessels caused by earthquake and a tsunami along the Japan Sea coast from southern Hokkaido to the Niigata area, Honshu. Many of the casualties and much of the damage occurred on the Oga Peninsula. Tsunami damage occurred as far away as Yamaguchi Prefecture in southwestern Honshu, along the Japan Sea coast of USSR, and along the eastern and southern coasts of South Korea, where 3 additional people were killed. Felt (V JMA) at Akita, Fukaura and Mutsu. Felt on Hokkaido and throughout northern and central Honshu. Estimated tsunami heights were 14 m. at Minehama, Honshu, 2-6 m. along southern Hokkaido and northern Honshu, up to 8 m. along the coast of USSR, and 4 m. along the coast of South Korea.

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AOMJ    0.95  84 iP    00 16.50  -0.6
AKI     1.05 135 iP+   00 17.80  -0.9
                 S     00 36.50
AOM     1.30  74 iP+   00 21.80  -0.5
                 eS    00 46.00
HJH     1.38 144 iP    00 21.30  -2.1
SAK     1.65 160 eP    00 31.00   3.7X
                 S     00 53.80
SKH     1.73 158 iP    00 26.80  -1.7
MRK     1.74 116 iP+   00 28.00  -0.6
                 eS    00 56.00
HAK     1.82  42 iP+   00 30.80   1.0
                 eS    01 01.00
HAC     1.83  87 iP+   00 29.50  -0.3
                 S     00 56.00
MOR     1.97  33 eP    00 32.00   0.2
                 eS    00 59.00
MRR     2.32  36 eP    00 38.00   1.2
MIY     2.32 110 P+    00 37.30   0.3
                 S     01 16.00
OFUJ    2.39 124 iP    00 36.50  -1.5
YAMJ    2.39 163 iP    00 35.90  -2.1
YAM     2.40 156 P+    00 36.20  -1.9
OFU     2.44 124 P+    00 37.00  -1.6
                 e     00 51.00
MRRJ    2.44  36 iP    00 38.20  -0.4
SUT     2.47  19 iP+   00 40.10   1.1
                 eS    01 15.00
AIK     2.54 196 eP+   00 38.00  -2.0
                 eS    01 04.00
NII     2.55 181 P+    00 39.50  -0.7
                 S     01 03.00
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26d 03h

SEN	2.59	148	P+	00	40.60	-0.2				eS	02	31.70		CN2	10.70	293	iPd	02	31.00	-3.3X
			eS	01	13.00		HMM	5.85	191	eP	01	28.00	1.0				sP	02	44.00	
ISN	2.64	140	P+	00	40.00	-1.5	NGT	5.86	182	eP	01	32.00	4.9X				eS	04	36.00	
			e	00	46.00		OMA	5.90	187	eP	01	29.00	1.4	NGS	10.72	227	Pd	02	36.80	2.2
FKS	2.90	158	P+	00	43.60	-1.5	TYK	5.98	216	eP	01	28.00	-0.8				eS	04	30.00	
			e	01	06.20		VLA	6.03	298	iP	01	25.00	-4.4X	KAG	11.26	221	eP	02	44.00	2.0
SAP	3.07	32	P+	00	49.70	2.2	KYO	6.07	207	eP	01	30.00	-0.1				S	04	43.40	
			eS	01	34.00		TSU	6.12	281	eP	01	31.00	0.3	FKJ	11.33	230	P	02	45.20	2.2
NIIJ	3.22	182	iP	00	47.30	-2.4				S	02	37.10					e	05	10.00	
URA	3.23	57	P+	00	51.40	1.6	TK04	6.15	190	eP	01	32.00	0.9	KAGJ	11.42	218	eP	02	44.00	-0.2
			eS	01	36.00		SAI	6.23	229	eP	01	30.00	-2.4	TAJ	11.74	217	eP	02	49.00	0.4
TKD	3.43	192	eP	00	51.00	-1.6	TOTJ	6.29	219	P	01	31.90	-1.2	NKL	12.72	4	iPc	03	03.50	2.0
			eS	01	31.00		TOT	6.30	220	ePd	01	34.00	0.6				iS	05	26.00	
SHR	3.45	165	eP	00	52.00	-1.0				iS	02	36.00		CBI	13.58	168	P	03	11.10	-1.9
			e	01	48.00		NAR	6.34	205	eP	01	35.00	1.2				S	05	39.50	
WAJ	3.53	210	P+	00	53.00	-1.1	TK03	6.36	189	eP	01	36.00	2.0	NZJ	14.43	216	Pd	03	26.00	1.8
			eS	01	26.00		OSA	6.45	208	eP+	01	36.00	0.6				S	05	51.90	
HOOJ	3.66	57	P	00	55.90	-0.1				e	03	17.00		SKR	15.62	44	P	03	38.10	-1.5
ONA	3.78	158	P	06	59.80	2.2	OSK	6.46	206	eP+	01	35.00	-0.6	MVI	16.01	207	eP	03	46.00	1.2
			e	01	35.10		KOB	6.56	210	iPd	01	39.40	2.4	NGO	16.65	217	eP	03	54.00	1.1
NGN	3.87	191	eP	01	01.00	2.1				e	03	04.20		NAH	17.11	217	eP	04	00.00	1.4
			eS	01	46.00		TK02	6.60	190	P	01	41.00	3.7X	SSE	17.28	243	Pc+	04	03.00	2.3
OBI	3.92	50	P+	01	01.80	2.2	HIM	6.63	213	eP	01	39.00	1.1		N	10s	5500.00um			
			eS	02	05.00					eS	03	12.00			E	10s	4330.00um			
RMJ	3.95	27	eP	01	02.00	2.1	SHO	6.63	57	iPc	01	36.00	-2.0				pP	04	14.20	
			S	01	57.60			N	12s	9615.00um							PP	04	21.00	
UTS	3.96	171	Pd	01	01.60	1.4		E	15s	9552.00um							sP	04	23.40	
			eS	01	46.00					eS	02	53.20					S	07	21.00	
MAT	3.98	191	iPc	00	58.80	-1.8	TK01	6.80	191	P	01	43.30	3.3X				sS	07	34.00	
MTMJ	4.01	195	iP	00	59.00	-2.0	OWA	6.80	201	eP	01	39.00	-1.4				SS	07	43.00	
TOY	4.04	203	eP	01	04.00	2.6				e	03	32.50		KMJ	17.42	220	eP	04	00.00	-2.6
			eS	01	42.00		WKYJ	6.84	205	P	01	41.90	0.9	BJI	17.53	276	iPd	04	03.00	-0.8
MAE	4.06	181	eP	01	02.00	0.4	YONJ	6.92	222	P	01	41.90	-0.1				eS	07	17.00	
			S	01	50.10		MTS	6.92	226	Pd	01	42.80	0.8	TIA	17.77	263	iPd	04	06.70	-0.2
ASA	4.09	35	P+	01	04.40	2.4				iS	02	53.00					sP	04	22.50	
			e	02	18.00		SUM	6.98	210	P	01	43.20	0.3				PP	04	25.00	
KAZ	4.14	187	eP	01	03.00	0.0	WKY	6.98	208	ePd	01	44.20	1.3				S	07	39.00	
MIT	4.21	165	Pd	01	05.70	1.9				iS	02	58.30		PET	18.27	40	P	04	10.00	-2.9
			eS	01	52.00		YSS	7.04	20	iPc	01	46.00	2.3	NJ2	18.35	249	iPc	04	15.00	0.9
MTM	4.31	193	eP	01	15.00	9.7X		1.0s	******nm			8.6mb X					S	07	39.00	
KMG	4.32	177	eP	01	07.00	1.8	OKA	7.10	217	eP+	01	45.00	0.4	TUP	19.00	324	ePc	04	19.20	-2.6
			e	02	14.00					e	03	13.60			1.8s	150.00nm				4.9mb X
KAKJ	4.33	169	iP	01	03.40	-2.1	TKM	7.35	215	eP	01	48.00	0.0	MYK	19.47	221	eP	04	34.00	6.4X
KAN	4.37	207	eP	01	05.00	-1.0				iS	03	23.40		ISI	20.41	223	eP	04	43.00	5.5X
CHJJ	4.41	181	iP	01	02.60	-4.0X	TKS	7.35	211	eP+	01	48.00	0.0	TIY	20.88	271	eP	04	41.50	-0.9
CHJ	4.47	181	eP	01	20.00	12.6X				eS	03	08.00					S	08	32.00	
			e	02	16.00		HJJ	7.37	176	Pd	01	49.20	0.9	HHC	20.89	280	Pc	04	41.90	-0.7
TKY	4.55	200	iP	01	07.80	-0.9				S	03	08.60		MGD	20.96	16	eP	04	39.50	-3.5X
KUS	4.67	56	eP	01	10.00	-0.3	SHJ	7.50	202	ePd	01	51.00	0.8		Z	14s	829.00um			7.3MszX
			e	02	04.00					e	03	06.00					iS	08	36.00	
TOK	4.80	174	eP	01	14.00	1.9	TKSJ	7.63	214	P	01	53.40	1.4				iSSS	09	16.00	
			e	02	30.00		SHK	7.83	223	ePd	01	52.70	-2.1	ANP	21.19	229	iP+	04	44.00	-1.6
KOF	4.81	186	eP	01	13.00	0.7	HMD	7.89	227	eP	01	56.00	0.4				eS	08	26.00	
			eS	02	01.00					e	03	43.00		TATO	21.36	229	eP	04	46.00	-1.3
CHO	4.92	164	eP	01	13.00	-0.8	HIR	8.09	223	eP	02	00.00	1.6	BTO	22.09	280	Pd	04	53.00	-1.6
			eS	02	11.00					e	03	50.00					S	08	50.00	
FUK	4.96	208	ePd	01	14.00	-0.4	MDJ	8.17	304	Pd	01	57.00	-2.6	YAK	22.33	348	iPc	04	54.20	-2.4
			eS	02	03.50		KOC	8.22	215	eP	02	01.00	0.8		1.0s	2190.00nm				6.6mb
FUN	4.97	183	eP	01	19.00	4.4X				iS	03	55.90					ePP	05	22.60	
			eS	02	49.00		MRT	8.22	210	eP	02	00.00	-0.3				iSS	09	44.60	
YOK	5.04	175	eP	01	15.00	-0.5				eS	03	21.00		WHN	22.41	252	eP	04	53.00	-4.7X
			eS	02	09.00		MTY	8.33	219	eP	02	02.00	0.3				iS	08	54.00	
IID	5.05	192	Pd	01	18.00	2.3				e	03	38.00		OZH	23.12	234	iPc	05	02.50	-2.2
			iS	02	16.50		UGL	8.87	13	iPc	02	11.00	1.9	BOD	23.63	326	eP	05	06.20	-3.2X
IIDJ	5.07	191	P	01	14.60	-1.4		1.0s	11.00nm			5.1mb X		SEY	23.83	15	iPc	05	11.00	-0.3
ABJ	5.22	45	P+	01	20.10	2.1	UWA	8.94	218	eP	02	11.00	0.8				S	09	29.00	
			eS	02	27.00		SHNJ	8.99	228	P	02	11.60	0.7	XAN	24.81	265	Pc	05	19.00	-2.2
WAK	5.29	20	eP	01	22.00	3.0X	ASZ	9.16	214	P	02	14.60	1.4	IRK	26.51	308	P	05	35.00	-1.8
			eS	02	32.00					S	03	46.20		SMY	26.70	51	eP	05	39.00	0.5
MIS	5.35	182	ePd	01	22.00	2.1	SHN	9.21	228	ePd	02	16.00	2.1	ZAK	26.81	304	iPc	05	38.50	-1.0
TSR	5.38	208	eP	01	40.30	19.9X				eS	03	56.00			1.6s	2350.00nm				6.6mb
			eS	02	47.40		OIT	9.39	222	Pd	02	19.60	3.2X		Z	12s	4694.00um			8.3MszX
GIF	5.39	201	ePd	01	21.00	0.5				e	04	58.00			N	10s	2980.00um			
			eS	02	12.00		FKK	9.80	228	iPd	02	24.30	2.2		E	12s	3376.00um			
AJI	5.41	180	eP	01	19.00	-1.8				eS	04	11.00					eS	10	13.50	
TAT	5.50	174	P	01	24.40	2.3	NOB	9.89	220	Pd	02	25.80	2.6	PIP	27.22	221	ePd	05	43.50	0.0
			eS	02	21.00					eS	04	10.00		GUMO	27.24	168	eP+	05	42.00	-1.7
KTJ	5.51	180	eP	01	22.00	-0.2	ASJ	9.96	223	ePd	02	26.00	1.7		1.0s	2460.00nm				6.8mb
SHZ	5.51	186	eP	01	24.00	1.8	IZU	10.02	235	eP	02	26.00	1.0	PJG	27.24	168	e(P)	05	43.80	0.1
TSRJ	5.51	208	iP	01	21.40	-0.8				S	04	36.00		GUA	27.30	168	eP+	05	42.20	-2.1
NAG	5.56	199	eP	01	23.00	0.1	SAG	10.09	227	eP	02	28.00	2.0		0.9s	672.00nm				6.3mb
			S	02	12.60					S	04	06.50					(pP)	05	50.70	30kmX
NEM	5.60	57	P+	01	22.40	-1.0	KUM	10.20	224	Pd	02	29.50	2.0				e(S)	10	14.00	
HIK	5.66	205	eP	01	25.00	0.7				S	04	22.10		GZH	27.79	239	Pc	05	48.20	-0.5
			iS	02	31.50		KUMJ	10.35	223	P	02	31.00	1.4				sP	06	00.00	
OSH	5.70	178	ePd	01	26.00	1.2	MYZ	10.56	219	eP	02	35.00	2.6				iS	10	33.00	
MZH	5.84	212	P	01	26.30	-0.5				e	05	05.00		HKC	27.81	237	P	05	48.00	-0.9

26d 03h

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LZH    27.93 272 Pc    05 48.00  -2.1
                sP    06 02.00
SZP    27.96 221 eP    05 51.00   0.8
MCO    28.34 237 eP    05 53.80   0.2
MOY    28.43 306 ePc   05 52.90  -1.2
       2.0s   490.00nm          5.9mb
BAG    28.87 219 iP+   05 56.00  -2.7
GTA    30.00 281 P     06 05.60  -3.0X
                S     11 04.00
CD2    30.10 263 eP    06 05.60  -3.9X
                pP    06 16.50  40kmX
                S     11 07.00
MAN    30.16 217 ePc   06 11.00   1.0
OCP    30.18 217 iP    06 00.50  -9.7X
GYA    30.29 253 P     06 08.00  -3.3X
                PP    07 10.00
                S     11 08.00
LGP    30.38 211 ePd   06 21.50   9.6X
CNP    30.62 209 P     06 19.50   5.5X
PGP    31.23 216 eP    06 22.40   3.0X
TIK    31.67 354 eP    06 21.00  -1.8
       1.0s   510.00nm          6.4mb
                ePP   07 26.00
                ePPP  07 37.00
                ePcP  09 19.00
                eS    11 21.00
                esS   11 38.00
PLP    31.75 207 eP    06 23.00  -1.0
ADK    32.18  54 ePd   06 26.00  -1.4
UER    32.70 305 iPd   06 29.90  -2.0
       2.0s  3000.00nm          6.9mb
                eS    11 54.20
KMI    33.94 254 Pc+   06 40.50  -2.8
                sP    06 53.00
                PP    08 00.00
                iS    12 07.00
CGP    34.38 206 ePc   06 43.50  -3.3X
PPH    34.47 203 eP    06 46.50  -1.1
DAV    35.38 204 eP    06 51.00  -4.4X
PPR    35.52 216 eP    07 00.00   3.4X
ILT    35.67  26 iPd   06 55.00  -2.4
       1.8s  3630.00nm          7.0mb
     Z  22s  1748.00um          7.8Msz
     N  20s  3093.00um
     E  20s  1924.00um
                iPP   08 22.00
                ePPP  08 32.00
                iS    12 34.00
ELT    37.49 308 P     07 11.10  -1.7
WMQ    37.79 293 iPc   07 14.20  -1.4
                sP    07 26.00
                PP    08 43.00
                S     13 10.00
NVS    39.18 311 P     07 26.40  -0.5
NRI    39.25 334 P     07 26.00  -1.3
ANM    39.67  34 e(P)  07 29.50  -1.5
LSA    40.27 270 iPc   07 36.80  -0.1
                PP    09 10.80
                PcS   13 27.80
CHG    40.60 250 iPc+  07 38.00  -1.1
       1.2s   308.00nm          5.9mb
                eS    13 16.00
SEM    41.49 304 ePc   07 45.10  -0.9
                eS    13 58.90
                eSS   16 58.60
BDT    41.59 248 eP    07 46.50  -0.7
       1.2s   874.00nm          6.4mb
PCT    41.68 243 eP    07 49.30   1.3
       1.6s   845.00nm          6.2mb
SDN    41.75  48 eP    07 49.30   1.2
MOM    42.97 168 eP    07 57.00  -1.5
TTA    43.68  37 iPc   08 04.00   0.1
SVW    43.93  39 iPc   08 06.50   0.6
WWW    44.03 174 eP    08 07.00  -0.1
TBL    44.67 172 e(P)  08 17.50   5.2X
IMA    44.69  32 iPc   08 11.50  -0.6
AAI    45.07 196 ePc   08 16.00   0.6
       1.0s   465.00nm          6.4mb
TLG    45.15 295 iPc   08 16.30   0.3
     Z  19s  2391.00um          8.1Msz
                iS    15 00.60
                eScS  18 14.00
AAA    45.45 295 P     08 18.40   0.1
KKN    45.69 271 eP    08 18.70  -1.9
PKI    45.70 271 eP    08 18.60  -2.3
       1.6s  3780.00nm          7.1mb
KDC    45.86  44 iPc   08 20.50  -0.7
       1.6s  4030.00nm          7.1mb
MDG    45.90 171 eP    08 21.00  -1.0
DMN    45.92 271 eP    08 20.40  -2.1
RAB    46.02 162 iPc   08 22.00  -1.0
BKB    46.26 212 iPc   08 30.40   5.5X
       1.8s  3790.00nm          7.1mb
NRN    46.73 293 P     08 28.00  -0.8
PMR    46.99  38 ePc   08 29.50  -0.7
PME    47.04  38 ePc   08 29.50  -1.0
       1.4s  1990.00nm          7.0mb
     Z  20s  1200.00um          7.9Msz
COL    47.20  34 iPc   08 31.90   0.1
FBA    47.20  34 iPc   08 31.60  -0.2
FRU    47.21 295 P     08 30.00  -2.2
LAT    47.44 169 eP    08 34.00  -0.2
KSH    47.48 290 eP    08 35.00   0.5
                pP    08 45.00  33kmX
                PP    10 34.00
                iS    15 39.00
SNG    47.73 237 iPc+  08 37.00   0.5
       1.0s   980.00nm          6.8mb
                iS    15 45.00
TOA    48.30  37 ePc   08 40.00  -0.6
PAA    48.91 158 eP    08 42.00  -3.7X
MKS    48.92 206 iPd   08 45.00  -0.7
KHE    48.92 348 iPc   08 45.50   0.5
       2.0s  9270.00nm          7.5mb
     Z  12s  1670.00um          8.2MszX
                iS    15 49.00
IPM    49.48 234 ePd   08 50.50   0.4
       2.0s  1180.00nm          6.6mb
                i     09 06.00
                e     10 09.90
                e     11 05.00
ANR    49.54 293 P     08 49.60  -0.7
LMG    49.83 168 eP    08 51.00  -1.8
KGM    50.14 230 ePc   08 54.00  -1.1
       1.2s   178.00nm          6.0mb
                e     09 34.50
PMG    50.17 170 eP+   08 53.00  -2.3
     Z  18s    49.80um          6.6MszX
KLM    50.26 232 eP    09 04.00   8.0X
                e     09 38.80
NDI    51.37 277 iPc   09 02.50  -1.9
       0.4s   381.00nm          6.7mb
                iPP   11 02.50
                iS    16 26.00
TAS    51.44 295 ePc   09 03.50  -1.3
       2.5s  8000.00nm          7.2mb
     E  12s   750.00um
                ePPP  12 10.50
                eS    16 21.50
KHO    51.46 290 iPc   09 04.50  -0.7
                eSPP  16 36.50
PCA    51.55  39 ePc   09 04.00  -1.4
GAR    51.68 292 eP    09 18.40  11.6X
     Z  20s   960.00um          7.8Msz
TSI    51.85 236 ePd   09 10.50   2.4
INK    52.19  28 iPc   09 09.10  -0.9
       0.6s   431.00nm          6.6mb
PSI    52.25 235 ePd   09 10.50  -0.6
       1.0s   269.00nm          6.1mb
KUPT   52.37 199 eP    09 13.00   1.1
BSI    52.44 240 eP    09 12.00  -0.6
ARU    52.62 316 ePd   09 12.70  -0.7
       2.0s  5600.00nm          7.1mb
     Z  16s  1320.00um          8.1MszX
     N  11s   500.00um
     E  16s  1260.00um
                ePcP  10 29.00
                ePP   11 18.00
                ePPP  12 21.00
                eS    16 31.00
DSH    52.96 292 P     09 15.40  -0.9
HNR    53.24 154 eP-   09 18.00  -0.4
SAM    53.73 294 iPc   09 20.60  -1.3
     N  16s   814.00um
                iPP   11 26.40
                iS    16 53.80
                iPS   17 04.00
                iSS   20 26.00
MBC    53.76  17 ePc   09 20.70  -0.8
SIT    54.98  42 eP    09 31.70   0.9
       1.6s  1770.00nm          6.8mb
OPA    55.86  90 iP    09 42.00   4.4X
KIP    56.01  90 eP    09 40.00   1.4
HON    56.07  90 eP    09 42.20   3.1X
HYB    56.63 265 ePc   09 41.00  -2.2
       1.4s  1930.00nm          6.9mb
                i     09 46.00
                eS    17 24.00
KNA    56.75 192 iPd   09 41.90  -1.9
ALE    56.81   3 eP    09 43.00  -0.7
       1.0s   468.00nm          6.5mb
QUE    58.29 284 eP    09 52.80  -2.2
APA    58.86 334 iPc   09 56.50  -1.7
       1.4s  1400.00nm          6.9mb
     Z  20s  1650.00um          8.2Msz
     N  12s   400.00um
     E  14s   800.00um
                iPP   12 12.00
                iS    17 58.00
HPO    59.24  90 eP    10 06.10   4.7X
HVO    59.24  90 iP    10 04.00   2.3
                iS    18 40.00
POO    59.54 269 iPc   10 02.30  -1.3
KEV    59.60 338 iPc+  10 02.20  -1.1
       1.1s   696.00nm          6.7mb
                i     10 08.90
GBA    59.81 262 P     10 03.00  -2.4
WB2    60.26 185 iPc   10 05.70  -2.6
ASH    60.50 296 P     10 10.00   0.1
MHI    60.54 294 eP+   10 09.00  -1.3
                eS    18 33.00
CTA    60.60 172 iPc+  10 08.20  -2.4
       1.2s   102.00nm          5.8mb
CTAO   60.60 172 eP    10 08.80  -1.8
VAN    60.67 296 ePc   10 10.00  -1.0
                eS    18 32.00
YKA    61.75  30 eP    10 17.10  -0.9
RSNT   61.76  30 ePd   10 16.20  -1.9
YKC    61.81  30 ePc   10 17.00  -1.4
       1.4s  2680.00nm          7.2mb
KOD    61.93 259 iPc   10 19.00  -1.2
PHC    61.97  46 eP    10 19.50  -0.2
       1.4s   970.00nm          6.7mb
DAG    62.21 354 iPd   10 19.10  -1.8
       0.7s   356.00nm          6.6mb
KHI    62.25 292 eP    10 19.80  -2.2
KJF    62.66 333 iP+   10 23.00  -1.0
       0.5s   362.00nm          6.8mb
                eS    18 53.00
KIR    62.67 338 iP    10 23.20  -0.9
MOS    63.45 322 iPc   10 29.00  -0.3
       2.0s  7800.00nm          7.5mb
                ePP   12 55.00
                iS    18 59.00
MBL    63.89 200 iPd   10 31.60  -0.9
PVC    63.95 149 iPc   10 36.00   3.0X
ASPA   63.99 185 eP    10 31.00  -2.2
SUF    64.12 332 iP    10 32.20  -1.5
       0.6s   210.00nm          6.5mb
OBN    64.25 322 iPc   10 35.00   0.4
       2.5s  *******nm          7.6mb
     Z  12s  1102.00um          8.3MszX
     N  12s   976.00um
     E  12s   747.00um
                iPcP  11 07.00
                iPP   12 58.00
                iPPP  14 36.00
                iS    19 12.00
                eSSS  26 04.00
PUL    64.34 328 P     10 33.50  -1.6
BAK    64.85 302 iPd   10 41.00   2.3
                ipP   10 51.00  32kmX
                eSP   19 34.00
MAK    64.99 306 P     10 39.60   0.0
MCW    65.58  46 ePc   10 40.00  -3.4X
GRO    65.88 307 iPc   10 44.00  -1.3
       2.0s  4600.00nm          7.3mb
                iS    19 31.00
NUR    66.09 330 iPc+  10 45.10  -1.2
       1.1s   864.00nm          6.8mb
                iPP   13 21.50
                iPPP  14 43.00
                eS    19 35.00
GMW    66.24  47 ePc   10 47.10  -0.5
TEH    66.40 297 eP    10 55.00   6.0X
NAU    66.44 204 iPc   10 47.20  -1.7
BFW    66.60  48 ePd   10 49.80  -0.2
IR7    66.95 298 iPc   10 52.10  -0.4
PNT    66.96  44 ePc   10 51.30  -0.9
       0.9s   679.00nm          6.8mb
KRV    66.98 304 iPd   10 52.00  -0.4
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26d 03h

		ePcP	11	18.00	
		ePP	13	19.00	
		iS	19	46.00	
		eSS	24	04.00	
PYA	67.08	309 P	10	52.60	-0.4
LON	67.25	47 iP	10	53.60	-0.5
WBN	67.28	192 iPc	10	53.20	-1.1
SHW	67.33	48 eP	10	54.40	-0.3
MTA	67.34	306 iPc	10	54.40	-0.2
		iS	19	41.40	
NOU	67.43	153 iPc	10	54.50	-0.8
GRS	67.62	303 P	10	55.40	-1.3
COR	67.64	50 iPc	10	56.00	-0.5
EDM	67.76	38 iP	10	56.50	-0.7
	1.4s	750.00nm			6.6mb
NDF	68.01	140 eP	11	03.00	4.1X
BKR	68.11	307 iPc	11	00.00	0.3
		iS	20	00.00	
TAB	68.44	302 iP+	11	02.00	0.2
LEN	68.46	306 iPc	11	02.00	0.1
	2.4s	2400.00nm			6.9mb
		iS	19	58.00	
NEW	68.91	44 eP	11	03.20	-1.2
SHI	69.06	291 iP	11	05.00	-0.7
UPP	69.09	333 iP	11	03.30	-1.9
	1.7s	6700.00nm			7.5mb
		i	11	07.30	
		i	11	10.40	
		iPP	13	44.00	
		iS	20	08.00	
		iP'P'	29	03.30	
		i	29	22.90	
SOC	69.31	310 iPc	11	06.50	-0.3
	2.1s	1300.00nm			6.7mb
		ipP	11	15.00	27kmX
		eS	20	18.00	
MEK	69.43	200 iPd	11	05.50	-2.1
FHC	69.43	54 ePc	11	08.30	0.6
		i	11	12.80	
		i	11	40.70	
		eP'P'	39	18.80	
RXF	69.59	43 iP-	11	08.30	-0.3
PNO	69.63	47 eP	11	07.00	-1.8
LHD	69.74	43 iPd	11	09.30	-0.2
LDM	69.74	43 iPd	11	09.10	-0.4
ANN	69.92	312 iPc	11	10.00	-0.5
	1.9s	4500.00nm			7.3mb
	N 13s	360.00um			
		ePPP	15	28.00	
		iS	20	19.00	
CLX	69.99	43 iPd	11	11.20	0.0
KER	70.08	298 eP	11	14.50	2.6
LGBM	70.20	52 iPc	11	13.00	0.4
NB2	70.34	336 P	11	11.70	-1.2
	1.4s	1650.00nm			7.0mb
WDC	70.44	53 ePc	11	13.50	-0.3
		i	11	17.80	
		i	11	45.20	
		eP'P'	39	12.50	
SES	70.67	40 ePc	11	14.10	-1.0
	1.2s	903.00nm			6.8mb
AFI	70.68	129 iPc	11	16.00	0.4
		S	20	28.00	
		SS	24	44.00	
		(SSS)	28	40.00	
RMT	70.76	54 eP	11	16.50	0.8
MSL	71.48	302 ePd	11	19.50	-0.7
		iPcP	11	30.50	
		e	16	13.00	
		e	19	46.00	
		eS	20	33.00	
		e	22	15.00	
SIM	71.65	314 ePc	11	20.00	-1.0
	3.0s	2500.00nm			6.8mb
		ipP	11	26.00	19kmX
		iPPP	15	40.00	
		iS	20	36.00	
COO	71.67	168 eP	11	21.00	-0.2
ORV	71.70	53 iPc	11	20.50	-0.9
FCC	71.72	26 iPc	11	19.90	-1.3
	0.9s	795.00nm			6.8mb
FFC	71.78	32 ePc	11	20.60	-1.0
CMS	71.86	174 eP	11	22.00	-0.2
STK	72.02	178 eP	11	22.00	-1.1
BKS	72.27	55 eP	11	24.50	-0.3
	1.8s	5000.00nm			7.3mb
	Z 20s	250.00um			7.5Msz
	N 20s	280.00um			
	E 20s	290.00um			
		i	11	28.80	
		ePP	14	26.00	
		eS	21	00.00	
		eSS	25	08.00	
AMM	72.49	44 eP	11	25.60	-0.7
BHD	72.54	299 ePc	11	28.00	1.5
		ePP	14	13.20	
		eS	20	48.00	
		e	22	31.00	
AKU	72.71	350 iPc+	11	28.10	1.2
	1.2s	1500.00nm			6.9mb
		i	11	31.80	
		i	12	04.40	
		i	21	59.40	
BUT	72.75	44 ePc	11	27.60	-0.1
KLG	72.76	196 eP	11	26.00	-1.6
LRM	72.93	44 iPc	11	28.60	-0.3
MHC	72.96	55 eP	11	28.90	-0.2
		e	11	33.00	
		e	12	01.00	
KVT	72.99	310 iP	11	29.00	-0.1
ARN	73.03	55 eP	11	28.40	-1.0
KIS	73.11	318 iPc	11	30.00	0.5
	3.0s	3000.00nm			6.8mb
	N 12s	263.00um			
		ipP	11	38.00	26kmX
		iS	20	54.00	
LCCM	73.22	44 ePc	11	30.20	-0.3
JAS	73.34	54 iPc	11	31.20	0.1
		i	11	35.40	
		i	12	03.30	
		i	13	26.20	
		eP'P'	39	01.00	
SLD	73.39	55 eP	11	31.90	0.4
LVV	73.57	322 iPc	11	32.50	0.3
	7.0s	********nm			7.9mb X
		iS	21	08.00	
		iPS	21	37.00	
		iSSS	28	56.00	
IAS	73.65	319 iP	11	23.00	-9.7X
BAL	73.71	200 iPd	11	31.50	-1.6
BMN	73.73	51 eP	11	33.50	0.0
	Z 21s	1016.26um			8.1Msz
FRB	73.83	12 ePc	11	31.80	-1.6
COP	74.07	332 iPc+	11	35.30	0.4
	1.3s	3080.00nm			7.2mb
CLI	74.23	318 ePd	11	37.00	0.9
PPE	74.28	318 eP	11	37.00	0.6
PRI	74.32	56 ePc	11	37.40	0.4
		i	11	41.50	
KLB	74.38	199 eP	11	35.00	-2.0
FRI	74.39	55 eP	11	37.10	-0.1
		i	11	41.10	
BAC	74.41	318 eP	11	36.00	-1.1
MNA	74.44	53 iPc	11	37.80	0.1
		eP'P'	39	00.00	
MUD	74.59	334 iPc	11	38.20	0.2
	1.3s	2100.00nm			7.0mb
REY	74.66	352 iP	11	41.10	2.8
YOU	74.86	172 iPc	11	39.00	-0.7
		e	18	38.30	
VRI	74.97	318 iPc	11	40.50	0.1
IMW	75.01	45 iPc	11	41.50	0.4
BRD	75.05	318 eP	11	43.00	2.1
EUR	75.07	51 iP	11	42.60	1.2
	1.0s	3.46nm			4.3mb X
MUN	75.14	200 eP	11	40.00	-1.4
TLB	75.17	316 ePc	11	41.50	0.0
UZH	75.21	322 iP	11	43.00	1.3
		iPcP	11	50.00	
KRA	75.26	324 iPc	11	42.10	0.1
	1.5s	2520.00nm			7.0mb
		i	11	47.40	
		i	12	04.90	
		i	12	12.40	
		i	12	18.90	
BMR	75.32	321 ePd	11	45.00	2.6
ISR	75.57	318 ePc	11	45.00	1.1
MLR	75.63	318 iPc	11	44.00	-0.4
ANTO	75.67	310 iP	11	45.10	0.5
BEI	75.74	47 eP	11	45.60	0.5
SPC	75.76	324 iPc	11	46.20	1.1
NWAO	75.78	199 eP	11	43.00	-2.0
CEI	75.81	321 eP	11	51.00	5.9X
CJR	75.95	320 eP	11	47.00	1.0
CAN	75.96	172 iPc	11	46.40	0.4
		e	14	53.40	
		e	15	08.00	
		e	18	20.80	
ISA	76.00	55 eP	11	53.00	6.4X
	1.0s	0.85nm			3.7mb X
		ePP	14	52.00	
		ePPP	16	59.00	
		eS	21	57.00	
		ePPS	22	24.00	
		eSS	26	41.00	
JOS	76.13	323 iPc	11	46.00	-0.9
	2.0s	260.00nm			5.9mb
BRL	76.23	329 iPc	11	48.50	1.2
KSP	76.26	327 iPc	11	48.00	0.4
	1.5s	2200.00nm			7.0mb
		i	11	54.50	
		iPP	14	46.00	
BRN	76.30	329 iPc	11	48.70	0.9
MOUT	76.31	47 eP	11	48.10	-0.4
DUG	76.44	49 eP	11	48.80	-0.3
BDW	76.50	45 iPc	11	49.30	-0.2
	1.1s	264.00nm			6.2mb
CGN	76.52	317 eP	11	50.00	0.8
HAM	76.71	332 iPc	11	50.60	0.5
WAM	76.81	172 eP	11	49.90	-0.8
GPA	76.82	312 eP	11	50.80	-0.2
PSZ	76.84	323 iPc	11	51.60	0.6
DEV	76.88	320 ePd	11	53.00	1.8
ISK	77.00	313 eP	11	51.80	-0.1
DRA	77.06	318 eP	11	51.00	-1.2
PAS	77.17	56 eP	11	53.00	0.0
	1.0s	850.00nm			6.7mb
		ePP	14	52.00	
		eS	21	57.00	
DMK	77.20	314 iPd	11	52.90	-0.1
BRG	77.20	328 iPc	11	53.10	0.3
	2.2s	745.00nm			6.3mb
CLL	77.24	329 iPc	11	52.90	-0.1
	1.6s	3200.00nm			7.1mb
		i	11	58.60	
		i	12	29.80	
		iS	21	45.00	
BFD	77.33	177 eP	11	57.00	3.5X
BKU	77.36	50 eP	11	54.40	0.1
SDW	77.56	55 eP	11	55.40	0.1
PRU	77.63	327 iPc	11	55.50	0.2
	Z 15s	1100.00um			8.3MszX
		i	12	31.50	
		eS	21	30.00	
		e	22	45.00	
		eSS	27	46.00	
PVL	77.66	317 iPc	11	56.00	0.5
ALT	77.76	311 iPc	11	55.70	-0.6
TOO	77.88	175 eP	11	56.00	-0.6
ZST	77.90	325 iPd	11	57.30	0.6
	Z 12s	855.00um			8.3MszX
		iS	21	57.20	
MSU	77.93	49 ePd	11	58.10	0.7
RSON	78.00	31 iPc	11	55.70	-1.6
EDC	78.15	313 iPc	11	58.10	-0.2
VKA	78.19	325 ePc	11	59.40	1.0
	1.7s	4070.00nm			7.2mb
		i	12	06.10	
		i	12	44.30	
		iPP	14	59.70	
		i	15	17.20	
		iS	21	51.00	
		(SKS)	22	02.00	
DIM	78.21	316 eP	12	00.00	1.4
DST	78.23	312 iPc	11	58.30	-0.5
MOX	78.31	329 iPc	11	59.50	0.5
	1.6s	3270.00nm			7.1mb
	Z 14s	921.00um			8.3MszX
	N 14s	907.00um			
	E 16s	1300.00um			
		i	21	56.00	
WIT	78.40	333 eP	12	01.00	1.6
		i	12	25.40	
		ePP	15	12.50	
RSSD	78.44	41 eP	11	58.80	-1.3
HOF	78.46	329 iPc	12	00.40	0.5
BCK	78.56	310 iPc	11	58.80	-1.9
KHC	78.70	327 iPc	12	01.90	0.7
		e	12	08.50	
		S	22	06.00	
WET	78.97	327 eP	12	03.00	0.3

WTS 79.02 332 iP 12 03.20 0.4	1.0s 1250.00nm 6.9mb	iS 23 00.00
1.0s 793.00nm 6.7mb	SLE 81.84 329 eP+ 12 18.00 0.1	RDP 84.83 323 iPc 12 33.00 -0.4
iPcP 12 06.20	DDK 81.89 340 iPc 12 18.40 0.4	e 23 13.00
e 12 39.50	1.3s 1890.00nm 7.0mb	KRP 84.84 152 P 12 34.80 1.8
ePP 15 10.00	ePP 15 38.20	BGF 84.99 331 iPd 12 33.90 -0.1
VTS 79.07 317 iP 12 04.00 0.8	eS 22 40.00	0.9s 591.00nm 6.8mb
eS 22 04.00	CTI 81.92 326 iPc 12 17.50 -1.0	LPF 85.07 334 iPd 12 34.50 0.2
KMR 79.29 326 iP+ 12 05.40 1.0	ipP 12 46.50 112kmX	STV 85.19 327 eP 12 36.50 1.4
EKA 79.30 339 P 12 05.00 0.7	iPP 15 35.50	MZF 85.38 331 iPd 12 36.20 0.2
1.9s 852.00nm 6.4mb	e(S) 23 15.50	TCF 85.45 332 iPd 12 36.40 0.1
ESK 79.33 339 iPc 12 04.60 0.2	ECH 81.99 330 iPd 12 18.60 -0.1	1.4s 1650.00nm 7.1mb
1.5s 1300.00nm 6.7mb	DLE 82.03 340 iPc 12 19.00 0.3	LSF 85.73 332 iPd 12 37.60 -0.1
EZN 79.36 314 iPc 12 04.70 -0.2	1.2s 2070.00nm 7.0mb	CVF 85.91 326 eP 12 37.80 -0.9
ELL 79.44 310 iPc 12 04.50 -1.0	pPP 15 39.00	1.2s 558.00nm 6.7mb
JER 79.50 303 iPc 12 06.50 0.6	eS 22 40.00	MFF 86.01 333 iPd 12 39.30 0.2
DBN 79.51 333 eP 12 04.00 -1.4	ATH 82.11 314 iPc 12 20.00 0.6	FRF 86.03 327 eP 12 38.20 -1.0
i 12 10.00	iS 22 40.00	1.1s 529.00nm 6.7mb
ePP 15 20.00	ZUL 82.11 329 eP+ 12 19.60 0.2	LRG 86.23 328 eP 12 39.90 -0.3
ePPP 16 58.00	DCN 82.17 340 iPc 12 20.00 0.6	1.0s 813.00nm 6.9mb
iS 22 11.00	1.3s 2310.00nm 7.1mb	LMR 86.27 327 eP 12 39.70 -0.7
iSS 27 00.00	ePP 15 34.90	1.1s 945.00nm 6.9mb
BNS 79.73 331 iPc 12 06.40 -0.3	eS 22 46.00	GNZ 86.39 150 P 12 42.10 1.4
ePP 15 05.50	LLS 82.37 328 eP+ 12 21.30 0.4	ACO 86.43 43 eP 12 41.10 -0.3
eS 22 09.50	BAF 82.37 330 iPd 12 20.40 -0.3	RJF 86.55 332 iPd 12 42.10 0.3
PRK 79.80 313 ePc 12 08.00 0.8	BSF 82.45 330 eP 12 20.80 -0.4	1.0s 950.00nm 7.0mb
IZM 79.83 312 iPc 12 07.50 0.0	1.4s 858.00nm 6.6mb	CAF 36.67 331 iPd 12 43.00 0.6
TNS 79.87 330 ePc 12 08.00 0.5	HAU 82.47 330 eP 12 21.00 -0.2	1.2s 1620.00nm 7.1mb
ePcP 12 31.70	1.0s 656.00nm 6.7mb	LFF 87.14 332 iPd 12 45.30 0.7
ePP 14 52.60	ETA 82.48 340 iPc 12 22.00 0.9	1.0s 1220.00nm 7.1mb
eS 22 18.00	1.0s 810.00nm 6.8mb	PMO 87.15 112 iP 12 46.50 1.6
eSS 27 25.00	eS 23 22.00	1.2s 85.00nm 5.9mb
eSSS 30 52.00	SCH 82.53 15 eP 12 21.00 -0.4	GIB 87.17 320 e(P) 12 51.50 6.5X
GLA 79.99 55 iPc 12 09.00 0.5	SAL 82.75 326 iP 12 23.00 0.4	LPO 87.20 331 iPd 12 45.40 0.5
BHG 80.09 326 iPc 12 09.70 1.0	ECB 82.92 340 iPc 12 24.60 1.2	1.0s 1040.00nm 7.0mb
YER 80.12 311 iPc 12 09.30 0.2	NPS 82.97 311 ePc 12 24.00 0.0	MNG 87.22 153 P 12 44.10 -0.7
VAY 80.32 317 iPc 12 10.30 0.3	ECP 82.98 339 iPc 12 24.90 1.2	MEI 87.24 318 eP 12 46.00 0.8
ENN 80.35 332 eP 12 09.50 -0.5	1.1s 1710.00nm 7.1mb	ipP 13 22.00 141kmX
1.3s 775.00nm 6.6mb	eS 23 24.00	TPT 87.34 112 iP 12 47.30 1.5
iPcP 12 13.20	TMA 83.03 328 eP+ 12 24.20 -0.1	1.2s 75.00nm 5.8mb
FUR 80.40 328 iPd 12 10.80 0.4	HLW 83.24 304 iP+ 12 26.00 0.6	TCW 87.34 154 eP 12 48.00 2.7
1.4s 3090.00nm 7.1mb	eS 22 45.00	VAH 87.50 112 iP 12 47.80 1.2
i 12 48.00	BRT 83.37 320 iPd 12 30.50 4.6X	1.2s 40.00nm 5.6mb X
eS 22 17.00	ipP 13 04.00 132kmX	WEL 87.57 154 P 12 48.00 1.6
SKO 80.43 318 iPc 12 11.90 1.3	LCI 83.41 319 eP 12 29.00 2.9	e 13 23.00
i 12 15.00	MMK 83.45 328 eP+ 12 27.00 0.5	PP 16 28.00
iPcP 12 18.50	RAR 83.59 125 iP 12 28.00 0.8	S 23 16.00
iPP 15 23.00	DIX 83.65 328 eP+ 12 28.00 0.4	SNZO 87.57 154 e(P) 12 46.00 -0.4
iS 22 22.00	VLS 83.65 316 eP 12 27.50 0.1	AFR 87.57 115 iP 12 52.40 5.5X
BLY 80.45 322 iP 12 12.00 1.3	ALO 83.71 4[illegible] [illegible]Pc+ 12 28.50 0.5	1.4s 305.00nm 6.4mb
LJU 80.67 324 iPc 12 11.90 0.1	Z 22s 3.[illegible]0um 7.6Msz	RUV 87.64 112 iP 12 48.80 1.5
eS 22 26.40	ORO 83.79 328 iPc 12 27.50 -0.6	1.2s 60.00nm 5.8mb X
CRZ 80.69 152 eP 12 17.00 5.2X	1.0s 310.00nm 6.5mb	ATO 87.66 43 eP 12 41.40 -5.9X
i 12 40.00	ipP 12 55.50 107kmX	PPT 87.74 115 iP 12 53.20 5.5X
e 12 49.60	ePP 16 10.00	1.4s 305.00nm 6.4mb
STU 80.75 329 ePc+ 12 12.00 -0.2	e(S) 23 09.00	RRO 87.79 44 eP 12 48.20 0.2
1.3s 3620.00nm 7.2mb	PRT 83.88 325 eP 12 32.80 4.4X	1.6s 3110.00nm 7.4mb
RBL 80.79 325 iPd 12 12.50 0.0	1.5s 3.00nm 4.3mb X	PAE 87.80 115 iP 12 53.60 5.6X
iPP 15 31.00	ipP 12 47.00 49kmX	1.4s 215.00nm 6.3mb
UCC 80.88 333 Pd+ 12 13.60 0.9	iPP 16 40.00	ERC 87.83 321 iPc 12 50.50 2.5
PP 15 30.00	iS 22 54.80	ePP 16 28.00
S 22 14.00	FIR 83.89 325 iPc 12 29.00 0.5	OCO 88.20 43 iPd 12 50.60 0.7
PP 38 44.20	iS 22 53.00	CCI 88.51 323 iPd 12 52.00 0.7
GOL 80.91 45 iPc 12 14.00 0.4	VG1 83.90 327 iPd 12 29.50 1.0	MSZ 88.61 160 P 12 53.20 1.9
0.9s 123.00nm 5.9mb	LOR 84.02 331 iPd 12 28.60 -0.5	i 13 24.50
CEY 80.96 324 iPc 12 13.30 0.0	AOU 84.05 323 iPc 12 30.50 1.1	e 16 38.40
GLD 80.96 45 iPd 12 14.40 0.7	ipP 13 06.50 142kmX	e 16 58.00
Z 21s 462.00um 7.8Msz	iPP 15 45.00	SIO 88.63 42 ePc 12 51.60 -0.4
GAP 81.04 327 iPc 12 14.90 1.1	POI 84.09 323 eP 12 30.50 1.0	RHP 88.68 158 P 12 53.20 1.4
BUH 81.21 330 eP 12 14.40 -0.2	FLN 84.25 334 iPd 12 29.90 -0.3	e 23 28.70
TRI 81.27 325 iPd 12 14.50 -0.4	1.0s 625.00nm 6.8mb	e 23 35.30
DOU 81.38 332 Pc+ 12 15.10 -0.3	LDF 84.28 334 iPd 12 30.00 -0.4	TUL 88.76 42 iPc+ 12 52.50 -0.1
i 12 18.50	1.2s 855.00nm 6.9mb	1.7s 5150.00nm 7.6mb
S 22 26.00	SSF 84.32 331 iPd 12 30.40 -0.2	Z 18s 419.00um 7.9Msz
OHR 81.38 318 iPc 12 15.90 0.2	0.9s 703.00nm 6.9mb	EPF 88.93 331 iPd 12 53.00 -0.4
i 12 22.50	MNS 84.36 323 iPc 12 31.00 0.2	1.2s 333.00nm 6.5mb
i 12 39.10	iPP 16 18.50	RLO 88.95 41 iPc 12 53.40 -0.1
i 22 33.00	ORI 84.37 320 eP 12 32.50 1.5	AAM 88.96 30 ePc 12 55.50 2.1
STR 81.46 330 eP 12 17.00 1.2	e 13 02.50	OTT 89.00 24 eP 12 53.50 0.0
KZN 81.47 317 ePc 12 16.00 -0.2	SGO 84.54 321 iPc 12 32.00 0.2	1.0s 558.00nm 6.8mb
OGA 81.54 327 iPc 12 17.30 0.7	iPP 15 55.60	ELF 89.07 28 P 12 54.70 0.8
DMU 81.57 340 iPc 12 16.80 0.4	SMF 84.55 331 iPd 12 31.50 -0.3	GBO 89.12 41 iPc 12 54.10 -0.2
1.1s 1430.00nm 6.9mb	1.4s 1960.00nm 7.1mb	DLA 89.27 29 P 12 55.90 1.1
ePP 15 25.30	AVF 84.61 331 iPd 12 31.80 -0.2	WLO 89.38 44 eP 12 42.90 -12.6X
eS 22 32.00	GRR 84.70 335 iPd 12 32.40 -0.1	1.4s 2360.00nm
LHC 81.68 30 eP 12 16.50 -0.5	1.0s 1160.00nm 7.1mb	MNT 89.52 22 iPd 12 55.90 -0.1
1.2s 265.00nm 6.1mb	RMP 84.80 323 iPc 12 33.00 -0.1	1.6s 850.00nm 6.8mb
CDF 81.79 330 eP 12 17.60 -0.1	iPP 15 56.00	UTO 89.54 31 iPc 12 58.00 1.8

26d 03h

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IN1    89.56  33 eP    12 55.90  -0.4
CBM    89.66  18 eP    12 56.70   0.1
IN2    89.70  34 eP    12 56.80  -0.1
FVM    89.71  37 eP    12 57.10   0.1
       2.0s  2460.00nm          7.1mb
THI    89.90  34 eP    13 00.50   2.6
                iPP    13 47.00
                SS     22 00.50
                SSS    24 00.50
AN12   89.93  31 eP    12 58.00   0.0
PTN    89.96  24 eP    12 58.00  -0.1
RSNY   90.12  23 eP    12 58.60  -0.3
AN1    90.33  32 eP    13 00.00   0.1
AN3    90.40  31 eP    13 00.20   0.0
BHO    90.43  42 iP    13 00.30  -0.1
LGR    90.45 333 iPc   13 02.00   1.6
       2.0s     3.00nm          4.2mb X
                i      13 08.50
                iPP    16 50.80
                iPPP   18 58.80
                iS     24 16.00
IN3    90.68  33 eP    13 01.60   0.1
APH    90.77  24 eP    13 02.00   0.1
JCT    90.78  48 iP    13 02.00  -0.2
       1.0s  1400.00nm          7.2mb
EBR    90.78 330 eP    13 02.00   0 1
                e      16 38.00
                eS     23 36.00
ELC    90.83  37 eP    13 01.90  -0.3
POW    90.84  39 eP    13 02.00  -0.2
BNH    91.03  21 eP    13 02.80  -0.3
OLY    91.22  39 eP    13 03.40  -0.7
INY    91.40  26 eP    13 05.50   0.7
GRT    91.57  37 eP    13 05.70   0.1
STJ    91.71   8 eP    13 06.00  -0.1
       1.3s  999.00nm          7.1mb
EMM    91.87  19 eP    13 08.40   1.6
ATX    91.99  47 iPd   13 07.80   0.1
AAE    92.00 284 eP    13 09.60   1.3
FMTX   92.51  44 iPd   13 11.30   1.3
LNX    92.51  23 eP    13 10.80   0.9
MRC    92.67  29 iPKP  13 06.60  -4.1X
                iPKS   17 03.50
WES    93.04  22 eP    13 14.10   1.8
PWLA   93.26  37 eP    13 13.30  -0.1
ALI    93.29 329 iP-   13 15.00   1.5
                ePP    17 09.00
GPD    93.34  25 eP    13 13.80   0.1
HKT    93.38  45 iPd   13 14.30   0.3
HDM    93.52  23 eP    13 15.00   0.5
PAL    93.53  24 eP    13 16.00   1.4
GMTN   93.55  25 eP    13 16.10   1.4
PTO    93.65 336 iPc   13 15.00  -0.1
                iS     23 56.00
RSCP   93.85  35 eP    13 15.20  -1.0
NAV    94.37  31 eP    13 18.60   0.0
TKL    94.58  34 eP    13 18.20  -1.3
BLA    94.61  31 iP+   13 20.00   0.3
ALM    95.37 330 iPc   13 25.00   1.9
       1.6s     5.60nm          4.7mb X
     N 15s    110.00um
                iPP    17 37.00
                iS     25 37.20
CRT    95.50 331 iPc   13 27.00   3.2X
LIS    96.03 336 eP    13 29.70   3.6X
MAL    96.21 331 iP+   13 26.00  -0.9
                i      13 32.50
                iPP    17 31.00
SFS    97.09 332 iPc   13 32.00   1.1
                iPP    17 03.00
                iPPP   20 10.00
                iSKS   22 24.00
                iS     23 40.00
                iPS    25 28.00
                iSS    29 00.00
                iSSS   35 14.00
IIC    99.17  54 iP    13 45.00   4.0X
IFR    99.33 330 iP    13 41.00  -0.3
IIM    99.54  55 iP    13 46.00   3.4X
IIP    99.69  54 iP    13 47.00   3.6X
III   100.07  55 iPdiff13 47.30   2.4X
IIT   100.31  54 iPdiff13 50.00   4.0X
AVY   103.06 256 ePdiff13 59.00   0.8
DRV   106.80 180 ePdiff14 20.60   7.2X
                e      29 30.00
NPA   107.08 265 ePdiff14 19.00   3.1X
BNG   109.72 294 ePdiff14 08.50 -19.2X
       0.9s    12.50nm
MTD   113.95 268 ePdiff14 50.00   3.5X
MTD   113.95 268 iPKP  18 40.00   1.4
                iPKKP 29 31.00
                iP'P' 37 32.00
KRI   115.48 269 ePdiff14 58.00   4.6X
KRI   115.48 269 iPKP  18 43.00   1.4
                iPP    19 47.00
                iPKKP 29 24.00
                iP'P' 37 24.00
SJG   117.15  27 ePKP  18 47.00   2.4
     Z  20s   155.00um          7.6Msz
BUL   118.20 267 iPKP  18 50.00   3.3X
                iPP    20 06.00
                iPKKP 29 13.00
CNG   118.97 259 ePKP  18 48.00   0.2
                i      19 24.00
                iPP    20 10.00
                e      26 54.00
                iPKKP 29 05.00
                i      32 54.00
BPA   119.54  23 ePKP  18 51.00   1.8
JOZ   119.69 258 PKP   18 46.50  -2.7X
PAG   120.56  23 ePKP  18 54.00   2.8X
KDS   120.92 327 ePKP  18 51.68  -0.1
EVA   121.43 261 PKP   18 54.20   1.4
       1.2s   408.00nm
PRE   121.69 262 PKP   18 55.00   1.8
       1.2s   640.00nm
PRE   121.69 262 ePdiff15 31.00  10.1X
MAW   121.85 206 ePKP  18 53.00   1.0
       1.5s   228.00nm
KIC   122.78 316 ePKP  18 54.00  -1.4
                e      28 51.70
PRY   122.86 261 ePdiff15 56.00  29.9X
PRY   122.86 261 PKP   18 33.00 -22.4X
       1.1s   300.00nm
TOV   123.30  35 e(PKP)19 00.40   3.9X
       1.0s   163.00nm
SEK   123.48 260 PKP   18 53.00  -3.6X
       1.2s   640.00nm
SEK   123.48 260 ePdiff15 52.00  23.2X
UAV   123.74  37 e(PKP)19 01.00   3.4X
VIR   123.93 260 PKP   18 58.50   1.0
       1.1s   180.00nm
VIR   123.93 260 ePdiff15 51.50  20.7X
SWZ   124.62 262 PKP   19 00.50   1.7
       1.1s   600.00nm
SWZ   124.62 262 ePdiff15 53.00  19.1X
BLF   124.97 260 PKP   18 40.00 -19.5X
       1.2s   408.00nm
BLF   124.97 260 ePdiff15 59.50  24.1X
FUO   125.22  41 iPKP  19 04.50   3.9X
TRN   125.71  25 ePKP  19 04.30   3.2X
       1.0s   180.00nm
BOG   125.78  42 iPKP  19 06.20   4.4X
GRM   126.76 255 PKP   19 02.50  -0.2
       1.0s   296.00nm
SPA   130.27 180 e(PKP)19 04.00  -4.4X
       1.0s   375.00nm
                e      21 50.00
SYO   130.47 208 ePKP  19 04.60  -3.9X
HUA   138.54  57 ePKP  19 20.00  -6.0X
NVL   139.74 204 ePKP  19 20.00  -6.0X
                ipPKP 19 30.00
LPB   146.46  53 PKPc+ 19 40.90   1.2
ITR   148.35 355 ePKP  19 42.40   0.1
                i      19 45.60
SOB1  148.87   0 ePKP  19 42.70  -0.5
                e      19 45.80
TPL   149.16  62 ePKP  19 49.00   5.7X
YJA   152.30  56 ePKPd 19 49.80   1.2
SLA   154.11  60 ePKPd 19 53.40   2.7X
BAO   154.49  16 PKP   19 52.00   0.6
VCA   154.75  71 ePKPc 19 52.50   1.1
LNV   154.90  85 iPKPd 19 55.40   4.2X
OHC   154.97 162 iPKPc 19 54.00   3.7X
JACH  154.98  81 iPKPc 19 51.60   0.1
PEL   155.11  82 iPKPc+19 51.70   0.1
                i      19 55.00
SAN   155.26  83 ePKPc+19 52.00   0.2
BACH  155.35  83 ePKP  19 55.50   3.5X
PCH   155.44  83 iPKPd 19 52.20   0.1
CHCH  155.47  84 iPKPc 19 52.00  -0.1
FCH   155.49  82 iPKPc 19 53.00   0.5
TMU   155.55  96 ePKP  19 52.90   0.9
LOT   155.75  83 ePKP  19 53.00   0.4
CEN   155.84  77 ePKP  19 51.00  -1.7
RFA   157.46  84 ePKPc 19 55.00   0.3
TCA   158.78  72 ePKPc 20 01.20   4.9X
VAO   161.84  18 ePKP  20 01.30   1.6
                e      20 04.20
                e      20 51.40
BMA   162.07  10 ePKP  20 02.46   2.5X
                e      20 07.80
                e      20 29.90
                e      20 38.70
VBA   163.48  88 iPKPd 20 03.50   2.6X
                e      20 36.20
                e      20 56.50
LPA   165.40  73 iPKP+ 20 04.00   1.4
     Z  20s   148.00um
     S.D. = 1.2  on 590 of 685 obs.

   JUN  01, 1983  01h 59m 54.67± 0.05s
   17.035 S ± 1.8km  174.601 W ± 1.4km
   DEPTH = 179.6km  ( 41 depth phases)
   6.3mb ( 67 obs.)
 TONGA ISLANDS                      (173)
      Felt (II) at Apia, Samoa
      Islands.

AFI     4.13  42 iPd   00 53.50  -4.6X
                S      01 24.00
NUE     4.89 115 iP    01 03.70  -4.2X
                S      01 58.00
MBU     6.39 270 iPc   01 32.10   4.4X
SVA     6.71 260 ePc   01 36.20   4.4X
BOA     7.05 258 iPc   01 41.70   5.3X
NDF     7.62 263 iP    01 40.00  -4.0X
RAO    12.54 193 P     02 46.10  -1.8
RAR    14.61 109 P     03 11.00  -3.2X
                S      05 51.00
PVC    16.33 265 iPd   03 38.00   2.7
                iS     06 51.50
NOU    18.59 251 iPd   03 59.60  -1.2
                iS     07 28.20
CRZ    20.74 211 P     04 27.00   4.5X
                e      04 59.00
KRP    22.55 201 P     04 41.00   0.9
                S      08 39.00
AFR    23.70  95 iP    04 50.40  -1.1
       1.6s   905.00nm          6.1mb
PAE    23.89  95 iP    04 52.20  -1.0
       1.6s  1900.00nm          6.4mb
                epP    05 28.00 183km
PPT    23.90  95 iP    04 52.40  -0.9
       1.6s  2290.00nm          6.5mb
                epP    05 28.00 182km
MNG    25.02 198 P     05 02.70  -0.9
                S      09 15.00
PMO    25.74  89 iP    05 09.20  -1.2
       1.6s  1720.00nm          6.5mb
                epP    05 44.00 172km
WEL    25.85 199 P     05 11.00  -0.2
                PP     06 04.00
                S      09 22.00
HNR    25.88 264 eP-   05 10.00  -1.7
                ePP    06 10.00
                eS     09 20.00
                eLQ    10 20.00
VAH    25.96  90 iP    05 11.00  -1.4
       1.6s  1340.00nm          6.4mb
                epP    05 46.00 173km
TPT    26.01  89 iP    05 11.60  -1.2
       1.6s  1530.00nm          6.4mb
                epP    05 46.00 169kmX
SVO    26.10 284 eP    05 18.00   4.3X
RUV    26.21  90 iP    05 13.30  -1.3
       1.6s  1340.00nm          6.4mb
                epP    05 48.00 171km
MSZ    31.23 204 P     05 58.00  -1.1
COO    33.35 240 iPd   06 17.30  -0.5
       0.6s   875.00nm          6.6mb
ALOT   34.56 277 eP    06 28.50   0.3
RAB    34.99 288 iPd-  06 29.60  -2.2
CAN    37.13 234 iPd   06 48.60  -1.1
                i      07 02.70  54kmX
LMG    37.13 278 eP    06 51.00   1.0
CTA    37.18 259 iP    06 49.00  -1.2
       1.0s   359.00nm          6.0mb
                i      07 45.00 270kmX
                i      08 27.00
                i      09 07.00
```

01d 02h

		iS	12 19.00		
		i	13 30.00		
YOU	37.27	235	iPd	06 49.90	-1.0
WAM	37.52	232	iPd	06 52.40	-0.5
RKT	37.62	106	iP	06 54.40	0.6
PMG	37.94	277	iPd	06 52.00	-4.6X
CMS	38.62	241	iPd	07 01.50	-0.6
LAT	38.90	281	iPc	07 06.00	1.5
MOM	40.21	288	iPc	07 16.10	0.8
HPO	40.49	28	ePd	07 17.20	-0.2
MDG	40.51	282	eP	07 18.00	0.3
TOO	40.55	232	iPd	07 17.10	-0.8
	0.4s	345.00nm		6.3mb	
HON	41.44	24	eP	07 25.40	0.1
KIP	41.53	24	eP	07 25.60	-0.4
OPA	41.78	23	eP	07 23.60	-4.4X
STK	42.24	241	iPd	07 31.80	0.1
MCO	42.60	203	eP	07 35.00	0.7
BFD	42.66	233	iPc	07 34.60	-0.5
WWW	43.08	283	eP	07 38.00	-0.8
ADE	45.17	237	iPd	07 55.20	0.0
	1.2s	247.00nm		5.6mb	
GUA	50.21	305	eP-	08 34.50	0.0
	1.3s	1250.00nm		6.4mb	
		eS	15 42.00		
GUMO	50.28	305	eP-	08 35.00	0.1
PJG	50.28	305	e(P)	08 35.30	0.3
MTN	52.47	267	eP	08 50.00	-1.4
KNA	54.18	263	eP	09 03.00	-1.0
WBN	55.06	250	iPd	09 09.00	-1.2
AAI	57.61	277	eP	09 27.60	-0.8
	1.0s	790.00nm		6.5mb	
DRV	57.68	200	iPd	09 27.50	-0.6
KLG	59.34	244	iPd	09 38.30	-1.9
	1.0s	105.00nm		5.6mb	
SBA	61.54	184	iP	09 56.00	1.6
MBL	61.72	255	iPc	09 45.20	-11.2X
	1.0s	1480.00nm			
MEK	62.20	249	eP	09 58.00	-1.6
	0.6s	77.00nm		5.7mb	
KLB	62.46	243	iPc	10 00.00	-1.2
	1.0s	390.00nm		6.2mb	
NWAO	62.82	241	iPd	10 02.80	-0.8
BAL	63.43	244	iPd	10 06.40	-1.2
MUN	63.75	242	eP	10 08.00	-1.7
DAV	63.80	287	eP	10 10.00	-0.1
NAU	65.48	253	iPd	10 20.20	-0.7
	0.4s	160.00nm		6.2mb	
MKS	65.49	272	iPd	10 21.00	-0.1
	1.2s	457.00nm		6.2mb	
HJJ	66.20	319	P	10 25.00	-0.2
KYS	67.39	321	iPd	10 32.60	0.0
KTJ	67.86	320	P	10 34.80	-0.8
AJI	67.92	320	P	10 34.00	-1.9
TK01	68.03	318	P	10 36.60	0.4
TK02	68.04	319	P	10 37.00	0.6
TK03	68.05	319	P	10 36.60	0.0
KAKJ	68.05	322	P	10 36.40	-0.3
OYM	68.08	321	iPd	10 35.30	-1.7
TSK	68.09	322	iPd	10 36.40	-0.6
OMA	68.18	319	P	10 37.00	-0.5
SRY	68.19	321	iPd	10 36.30	-1.3
TK04	68.25	319	P	10 38.60	0.8
SHZ	68.30	320	P	10 38.00	-0.3
DDR	68.50	321	iPd	10 39.20	-0.4
ADK	68.65	359	iPd	10 38.80	-1.2
CHJJ	68.65	321	P	10 40.10	-0.3
IIDJ	68.94	320	P	10 42.00	-0.2
SHJ	69.00	317	P	10 42.80	0.2
OWA	69.11	318	P	10 43.00	-0.2
BKB	69.15	275	iPc	10 46.10	2.2
MIY	69.43	325	P	10 45.00	0.0
NIIJ	69.44	322	P	10 45.00	-0.2
MAT	69.45	321	iPd	10 45.00	-0.3
	2.0s	1760.00nm		6.5mb	
		eS	19 40.00		
YAMJ	69.48	323	P	10 45.10	-0.3
WKYJ	69.60	318	P	10 46.70	0.4
MTMJ	69.73	321	P	10 46.00	-1.1
TKY	69.78	320	P	10 47.00	-0.4
NKI	69.86	4	eP	10 45.70	-1.7
MRK	69.90	325	P	10 48.00	0.0
SUM	70.11	317	P	10 50.30	0.9
SMY	70.16	353	ePd	10 48.00	-1.2
TSRJ	70.18	319	P	10 51.00	1.3
HJH	70.20	324	P	10 49.00	-0.8
AIK	70.41	322	P	10 51.00	-0.1

TKSJ	70.46	316	P	10 51.30	-0.2
HOOJ	70.71	328	P	10 53.60	0.8
KUR	70.73	333	iPd	10 53.00	0.2
	1.0s	1150.00nm		6.6mb	
		epP	11 34.00	170km	
		esP	11 58.00		
		eScS	20 40.00		
WAJ	70.80	321	P	10 55.00	1.6
AOMJ	70.94	325	P	10 54.70	0.5
KAGJ	70.98	312	P	10 55.20	0.5
TRT	71.35	267	iPd	10 57.40	0.1
	1.2s	2010.00nm		6.8mb	
YONJ	71.57	317	P	10 58.50	0.4
HAK	71.61	326	P	10 59.00	0.8
SHK	71.69	316	iPd	10 58.70	-0.2
HIR	71.75	316	P	10 59.00	-0.2
MRRJ	71.88	327	P	10 59.90	0.2
BAG	72.01	294	iPd-	11 01.00	-0.2
		e	12 01.00	257kmX	
		eS	20 06.00		
KKM	72.08	282	eP	11 01.20	-0.5
	0.9s	325.00nm		6.1mb	
SKR	72.16	341	eP	11 04.40	3.1X
	1.5s	4060.00nm		6.9mb	
		ePcP	11 12.00		
		epP	11 46.20	173km	
		esP	12 04.80		
		ePP	13 52.00		
		eS	20 14.40		
SAP	72.20	328	P	11 03.00	1.4
ASAJ	72.31	329	P	11 03.10	0.9
SHNJ	72.50	315	P	11 02.60	-1.0
SUT	72.57	327	P	11 03.70	-0.1
SPA	73.07	180	iPc	11 07.10	0.4
	1.0s	195.00nm		5.8mb	
	Z 18s	2.61um		5.6Msz	
SDN	73.08	8	iPd	11 05.20	-1.2
NWRM	73.44	40	ePd	11 08.70	-0.2
PHAM	73.44	43	iP	11 09.00	-0.1
PRI	73.45	43	ePd	11 09.70	0.5
		epP	11 52.50	177km	
BKS	73.48	41	ePd	11 09.00	-0.2
	0.8s	50.00nm		5.3mb	
		epP	11 51.50	176km	
		esP	12 11.00		
		iS	20 27.50		
		eSKS	20 54.00		
		e	21 07.50		
		e	21 49.80		
		ePKKP	28 56.00		
PET	73.49	344	iPd	11 08.00	-0.9
	2.0s	2470.00nm		6.6mb	
		esP	12 06.00		
		eS	20 24.00		
MHC	73.53	42	ePd	11 10.00	0.3
		epP	11 53.30	179km	
ARN	73.61	42	iPc	11 10.30	0.3
		epP	11 53.50	179km	
SLD	73.64	42	iPc	11 10.40	0.2
PAS	73.98	46	iPd	11 12.00	-0.2
FHC	74.26	38	ePd	11 14.30	0.6
YSS	74.40	331	iPd	11 15.00	0.7
	1.7s	680.00nm		6.1mb	
	Z 17s	1.50um		5.4MszX	
		epP	12 01.00	191kmX	
		esP	12 18.00		
		ePP	14 04.00		
		eS	20 36.00		
		eSPP	21 15.00		
		ePS	21 30.00		
RMT	74.48	39	ePc	11 15.30	0.4
FRI	74.57	43	ePd	11 15.70	0.2
JAS	74.66	42	ePd	11 15.80	-0.3
		epP	11 59.40	180km	
		ePP	14 03.00		
WKTM	74.72	44	iPc	11 16.30	-0.2
ORV	74.97	40	iPd	11 17.30	-0.5
		pP	12 59.90	470kmX	
WDC	74.97	38	ePd	11 17.70	0.0
		epP	12 01.50	181km	
SDW	74.99	46	iPd	11 17.30	-0.8
ANP	75.03	303	eP	11 20.00	1.5
MIR	75.48	204	iPd	11 20.00	-0.2
	1.5s	30.00nm		4.8mb X	
		ePcP	11 35.00		
		epP	12 05.00	186km	
		ePP	14 12.00		

		iS	20 46.00		
		eScS	21 17.00		
LGBM	75.65	38	iPc	11 23.50	1.6
		pP	12 06.00	175km	
		e	12 29.50		
GLA	75.73	48	iPd	11 22.50	0.2
		pP	12 06.50	181km	
MNA	76.40	42	ePd	11 26.00	-0.1
		epP	12 09.00	177km	
KDC	76.73	12	iPd	11 26.80	-0.4
COR	77.07	35	iPd	11 29.00	-0.3
QZH	77.30	301	iPd	11 33.00	2.0
		S	21 13.50		
VLA	77.39	323	iPd	11 32.00	0.9
		isP	12 36.00		
		eS	21 12.00		
		iPS	22 08.00		
SSE	78.03	308	Pd	11 35.00	0.1
	1.5s	329.00nm		5.8mb	
		eSKS	21 25.00		
		eScS	21 32.00		
BFW	78.34	33	iPc	11 36.30	-0.1
EUR	78.40	42	iP	11 36.20	-1.0
SHW	78.67	34	eP	11 38.00	-0.3
PHC	79.12	28	iPd	11 40.50	0.1
	1.0s	490.00nm		6.2mb	
GMW	79.25	33	eP	11 40.40	-0.8
LON	79.26	34	iPd	11 40.60	-0.8
		pP	12 33.00	217kmX	
		e	14 40.00		
MDJ	79.62	323	Pd	11 43.00	-0.2
		pP	12 29.00	189km	
		sP	12 50.00		
		eS	21 19.00		
		ScS	21 36.00		
		PS	22 27.00		
		sS	22 32.00		
PGC	79.63	32	eP	11 43.40	0.3
BKU	79.77	44	iPd	11 44.50	0.0
MCW	79.96	32	eP	11 45.00	0.0
		epP	12 29.00	179km	
PNO	80.23	36	iPd	11 46.30	-0.2
NJ2	80.24	308	iPd	11 48.00	1.2
MSU	80.39	45	iPc	11 48.30	0.5
SIT	80.75	21	ePd	11 49.00	0.1
DUG	80.84	43	iPc	11 49.50	-0.5
		pP	12 31.00	168kmX	
		e	14 56.70		
GZH	80.91	297	iPd	11 52.00	1.5
		sP	12 57.40		
PMR	80.95	12	eP	11 49.30	-0.5
	1.2s	625.00nm		6.2mb	
TTA	81.03	8	ePd	11 50.90	0.6
CN2	81.60	321	iPd	11 55.30	1.7
		epP	12 37.00	168kmX	
		sP	13 01.00		
PCA	81.73	17	eP	11 57.80	3.7X
MGD	81.80	343	iPd	11 53.00	-1.3
	1.0s	370.00nm		6.1mb	
		esP	12 58.00		
		ePP	15 03.00		
		eS	21 50.00		
		ePS	23 06.00		
		ePPS	23 34.00		
MOUT	81.95	43	iPd	11 55.60	-0.4
PNT	82.01	33	eP	11 55.00	-0.7
	1.2s	595.00nm		6.2mb	
CRX	82.02	67	ePc	11 58.10	1.4
BEI	82.49	42	ePd	11 58.70	0.1
IIC	82.52	67	ePc	12 00.30	1.0
IIP	82.68	67	ePc	12 01.80	1.7
NEW	82.70	35	iPd	11 58.70	-0.6
ALQ	82.73	50	eP	11 59.70	-0.3
	0.9s	321.00nm		6.1mb	
	Z 18s	2.75um		5.7Msz	
		epP	12 43.00	175km	
ANMO	82.73	50	iPd	12 00.20	0.2
		e	12 45.00	182km	
KGM	83.02	274	ePd	12 03.00	1.4
	0.9s	338.00nm		6.1mb	
TMI	83.02	41	ePd	12 00.80	-0.5
WHN	83.06	305	iPd	12 02.50	1.1
		sP	13 08.50		
		PP	15 14.00		
IIT	83.10	68	ePc	12 03.60	1.4
TLX	83.34	67	eP	12 04.80	1.4
TIA	83.39	311	Pd	12 03.90	0.9

TABLE 4-104

01d 02h

	S	22 10.00			
	sS	23 35.00			
LHD	83.55	35 iPd	12 03.30	-0.4	
CLX	83.76	35 iP-	12 04.50	-0.4	
SEY	83.76	345 iPd	12 04.40	0.1	
	2.2s	3160.00nm		δ.7mb	
		epP	12 49.10	181km	
		esP	13 10.50		
		eS	22 10.00		
		eSP	23 09.50		
		eSPP	23 26.50		
LDM	83.80	35 iPd	12 04.50	-0.4	
VHO	83.89	70 iP	12 07.00	0.9	
IMW	83.93	41 iPd	12 06.40	0.4	
LRM	84.01	38 ePd	12 06.40	0.2	
RXF	84.13	35 iPd	12 06.30	-0.3	
COL	84.21	11 iPd	12 06.20	-0.3	
	Z 21s	2.87um		5.6Msz	
		iS	22 16.00		
BDW	84.24	42 iPd	12 06.70	-0.8	
		pP	12 52 20	184km	
		ePP	15 21.40		
ILT	84.74	358 iPd	12 09.00	0.0	
	2.0s	2000.00nm		6.5mb	
		isP	13 15.00		
		iS	22 14.00		
		iPS	23 36.00		
KLM	84.94	275 ePc	12 12.00	0.8	
LUB	85.60	53 eP	12 14.00	-0.2	
GOL	85.61	46 iPd	12 14.60	0.2	
	1.0s	153.00nm		5.8mb	
		pP	12 55.83	165kmX	
GLD	85.74	46 iPc	12 15.10	0.2	
	1.0s	140.00nm		5.7mb	
		pP	12 59.00	176km	
		e	15 34.00		
BJI	85.76	314 Pd	12 15.00	0.3	
		pP	12 56.00	164kmX	
		sP	13 14.00		
		eS	22 24.00		
		sS	23 43.00		
MAW	85.88	199 iPc	12 16.00	1.1	
	0.9s	22.00nm		5.0mb X	
IPM	85.96	276 ePd	12 17.60	1.3	
	0.9s	444.00nm		6.3mb	
		e	13 03.90	187km	
JCT	86.01	57 iPd	12 16.10	-0.1	
	1.0s	300.00nm		6.1mb	
	Z 18s	2.41um		5.6Msz	
		i	13 02.00	185km	
SNG	87.12	278 iP	12 24.00	2.1	
	1.0s	620.00nm		6.4mb	
		iS	22 44.00		
SES	87.19	35 eP	12 21.00	-0.5	
	1.0s	688.00nm		6.5mb	
TIY	87.43	311 Pd	12 24.70	1.7	
		PP	15 45.50		
EDM	87.47	32 iPd	12 22.20	-0.6	
	1.0s	537.00nm		6.4mb	
		pP	13 08 00	184km	
ATX	87.50	57 iP	12 24.00	0.6	
GYA	87.79	298 Pd	12 27.00	2.0	
		pP	13 11.00	176km	
		sP	13 30.50		
		S	22 40.00		
TSI	87.99	274 ePd	12 28.20	2.1	
RSSD	88.44	43 ePc	12 27.50	-0.4	
		pP	13 11.10	174km	
PCT	88.65	286 iPd	12 32.20	3.1X	
	1.6s	173.00nm		5.8mb	
XAN	88.65	306 iPd	12 30.10	1.2	
		sP	13 36.00		
		iSKS	22 42.50		
ACO	88.86	51 ePd	12 29.00	-0.8	
	1.1s	484.00nm		6.4mb	
		e	13 15.00	184km	
RRO	88.99	52 eP	12 30.60	0.2	
	0.8s	55.40nm		5.6mb	
		e	13 17.40	188km	
HKT	89.02	58 iP	12 31.50	0.9	
HHC	89.29	313 Pd	12 33.40	1.6	
ATO	89.30	52 eP	12 31.20	-0.6	
		e	13 15.80	178km	
OCO	89.69	53 ePd	12 32.80	-0.8	
		e	13 18.90	185km	
LPS	89.87	75 eP	12 36.00	1.1	
		eS	22 53.00		

INK	90.12	14 eP	12 34.00	-0.9	
	1.3s	801.00nm		6.5mb	
		pP	13 18.00	175km	
YAK	90.13	337 iPd	12 33.60	-1.4	
	2.0s	1080.00nm		6.5mb	
		iSKS	22 48.50		
		iS	23 03.90		
TUP	90.26	328 iPd	12 36.70	1.0	
	2.2s	940.00nm		6.4mb	
BTO	90.28	313 eP	12 37.20	0.8	
FMTX	90.47	57 iP	12 37.60	0.3	
SIO	90.65	53 iPd	12 38.00	-0.1	
KMI	90.69	296 iP-	12 42.00	3.3X	
	3.0s	4.50nm		4.0mb X	
		sP	13 40.00		
		PP	16 18.00		
		SKS	23 10.00		
		S	23 22.00		
SYO	90.80	192 iP	12 38.10	-0.1	
TUL	91.10	53 iPc-	12 40.20	0.1	
	1.3s	214.00nm		6.1mb	
	Z 18s	3.47um		5.8Msz	
		eSKS	23 00.00		
LNV	91.12	126 iPd	12 41.80	1.5	
BHO	91.30	54 iP	12 40.80	-0.2	
	1.2s	116.00nm		5.8mb	
BDT	91.62	287 iPd	12 44.00	1.2	
	1.0s	578.00nm		6.6mb	
CD2	91.68	302 P	12 44.80	1.9	
		sP	13 51.00		
		eSKS	23 00.00		
CHCH	91.72	126 iPc	12 46.00	2.8	
RLO	91.78	53 iPd	12 43.30	0.1	
PCH	91.94	126 iPc	12 45.50	1.2	
PEL	91.98	125 iPd	12 46.00	1.6	
RSNT	92.05	24 iPc	12 43.70	-0.1	
		ipP	13 31.00	190km	
		iPP	16 24.70		
YKA	92.05	24 eP	12 44.80	1.0	
BACH	92.06	126 iP	12 46.50	1.7	
YKC	92.09	24 iPd	12 43.90	-0.1	
	1.0s	135.00nm		6.0mb	
		pP	16 25.50		
LQT	92.10	126 iP	12 48.20	3.1X	
CHTO	92.14	289 P	12 47.00	1.8	
FCH	92.22	126 iPd	12 48.00	2.1	
		i	13 33.00	179km	
JACH	92.23	125 iPd	12 47.40	1.8	
NVL	92.31	182 iP	12 45.00	-0.1	
		epP	13 27.00	166kmX	
		esP	13 45.00		
		eSKS	23 00.00		
		eS	23 29.00		
RFA	93.07	128 ePd	12 50.80	1.4	
LZH	93.26	307 Pd	12 51.50	1.2	
		SKS	23 09.00		
		S	23 41.00		
NNA	93.80	104 eP	12 55.70	2.7	
	1.7s	115.00nm		5.8mb	
FFC	94.09	34 ePd	12 52.50	-0.9	
	2.0s	420.00nm		6.3mb	
		pP	13 37.00	177km	
OLY	94.30	54 ePd	12 54.50	-0.3	
BOD	94.66	329 iPd	12 56.40	0.4	
	1.3s	130.00nm		6.0mb	
POW	94.72	54 ePc	12 56.70	0.0	
ANT	95.65	117 eP	13 10.00	8.6X	
		epPP	13 45.00		
		eS	24 10.00		
FVM	95.84	52 iPc	13 01.60	-0.2	
	1.2s	229.78nm		6.4mb	
		epP	13 46.80	180km	
		ePP	16 53.70		
LST	95.95	54 e(P)	13 02.50	0.2	
GRT	96.11	54 eP	13 03.70	0.6	
TIK	96.25	345 ePd	13 02.50	-0.4	
	1.0s	190.00nm		6.4mb	
ELC	96.55	53 ePd	13 05.10	0.1	
		epP	13 50.20	180km	
PWLA	96.82	56 ePd	13 06.10	-0.2	
		epP	13 50.90	178km	
ARE	97.25	110 eP	13 11.00	2.0	
GTA	97.30	309 iPd	13 09.40	0.9	
		pP	13 58 00	195kmX	
		sP	14 15.00		
		PP	17 05.00		
		SKS	23 30.50		

RSON	97.43	39 eP	13 06.20	-2.5	
		epP	13 54.60	194kmX	
		ePP	17 01.50		
IRK	97.97	322 ePd	13 11.00	-0.1	
	1.9s	110.00nm		6.0mb	
	Z 19s	2.09um		5.6Msz	
		ePP	17 07.50		
		ePPS	26 54.00		
ZAK	98.03	320 iPd	13 11.50	0.2	
	2.0s	110.00nm		6.0mb	
		epP	14 00.80	198kmX	
		ePP	17 11.00		
		eSKS	23 34.00		
		ePPS	27 00.00		
MBC	98.75	11 iPd	13 13.60	-0.6	
	1.0s	100.00nm		6.2mb	
RSCP	98.94	56 eP	13 15.20	-0.7	
LHC	99.51	42 eP	13 16.50	-1.7	
		pP	14 02.50	184km	
FCC	99.57	31 iPd	13 17.50	-0.7	
MOY	99.78	321 ePd	13 19.80	0.5	
	2.2s	270.00nm		6.3mb	
LPB	100.27	111 Pdiffc	13 26.20	3.3X	
		e	16 52.00		
LSA	101.84	298 Pdiffd	13 30.90	1.2	
		PP	17 41.90		
UTO	101.87	50 ePdiff	13 34.00	5.1X	
NAV	103.08	55 e(Pdiff	13 35.60	1.1	
BLA	103.36	55 ePdiff	13 36.00	0.3	
	Z 20s	2.31um		5.7Msz	
		eS	24 02.40		
SDV	105.83	85 ePKP	18 01.30	1.8	
PKI	106.34	294 ePdiff	13 50.50	0.9	
	0.9s	16.00nm		6.1mb	
KKN	106.50	295 ePdiff	13 51.00	0.9	
	0.9s	28.00nm		6.4mb	
DMN	106.61	294 ePdiff	13 52.00	1.3	
	0.8s	23.00nm		6.4mb	
OTT	108.10	47 ePKP	18 02.00	-0.6	
NRI	108.38	338 iPdiff	13 56.00	-1.2	
	2.0s	30.00nm		6.2mb	
		eSP	27 32.00		
ELT	108.90	321 ePdiff	13 57.80	-2.0	
	2.0s	60.00nm		6.5mb	
HYB	110.57	283 ePKP	18 07.00	-1.1	
	1.2s	71.40nm			
		e	18 45.00		
NVS	110.70	323 iPdiff	14 08.00	0.2	
	2.1s	100.00nm			
		iSKS	24 31.00		
GBA	110.79	278 PKP	18 07.60	-0.9	
	0.8s	3.50nm			
FRB	112.24	27 ePdiff	14 16.00	1.6	
SEM	112.56	318 iPKP	18 09.80	-1.1	
		epPKP	18 50.50		
		eSKS	24 36.90		
		eSPP	29 26.80		
NDI	113.66	294 iPKPd	18 12.50	-1.3	
SCH	114.01	37 ePKP	18 12.10	-1.6	
TLG	114.52	310 ePKP	18 14.50	-0.6	
	2.4s	80.00nm			
		iPP	19 13.50		
		ePS	28 54.50		
		eSPP	29 53.50		
VAO	115.16	126 ePKP	18 16.50	-0.4	
		e	19 17.00		
POO	115.17	283 ePKP	18 16.00	-1.0	
NRN	115.52	308 iPKP	18 17.10	-0.3	
		eSKS	24 53.00		
FRU	116.55	310 ePKP	18 17.00	-1.9	
	2.0s	220.00nm			
	Z 20s	1.60um		5.6Msz	
	E 20s	1.50um			
		isPKP	19 20.00		
		iSPP	30 10.00		
RDJ	118.07	128 ePdiff	14 50.00	8.7X	
BAO	118.14	119 PKP	18 27.90	5.1X	
ANR	118.28	307 iPKPd	18 22.00	-0.2	
	2.0s	400.00nm			
KHO	118.97	304 ePKP	18 12.00	-11.9X	
		eSKS	25 08.00		
DAG	118.97	6 iPKPd	18 20.30	-2.2	
	0.6s	11.30nm			
		i	19 40.00		
KUL	120.38	304 ePKP	18 26.30	0.0	
	2.2s	700.00nm			
		epPKP	19 14.20		

TAS	120.57	308	ePKPd	18 26.50	-0.1	
	2.5s	1000.00nm				
	Z 36s	1.30um				5.3MszX
			ePP	19 50.50		
			eSKS	25 10.50		
			ePS	29 40.00		
			eSPP	30 46.50		
DSH	121.12	305	iPKPd	18 28.10	0.3	
			eSKS	25 04.50		
SAM	122.44	306	ePKP	18 29.70	-0.5	
	2.0s	1600.00nm				
			epPKP	19 21.00		
			iPP	20 08.80		
			ePPP	22 42.00		
			eSKS	25 09.00		
			eSP	29 36.00		
OUE	122.70	295	iPKPd	18 31.70	0.5	
	1.2s	2200.00nm				
SVE	122.90	327	ePKP	18 30.00	-0.5	
	2.2s	260.00nm				
			epPKP	19 20.00		
STJ	123.80	44	ePKP	18 31.00	-1.5	
ARU	124.10	327	iPKPd	18 32.70	-0.1	
	2.4s	700.00nm				
			ipPKP	19 22.30		
			iPP	20 25.00		
			ePPP	23 02.00		
			eSKS	25 22.00		
AVY	125.15	231	ePKPc	18 35.00	-1.3	
KEV	125.63	351	ePKP	18 29.00	-6.4X	
	0.8s	82.10nm				
			i	18 35.00		
			ipPKP	19 25.00		
			ePP	20 28.00		
			esPP	21 40.00		
			epPS	31 32.00		
			e	33 00.00		
			eSSS	38 28.00		
GRM	126.01	202	ePKP	18 43.30	5.9X	
APA	126.40	347	iPKP	18 35.80	-1.2	
	1.0s	100.00nm				
			epPKP	19 22.90		
			iPP	20 30.80		
SOB1	127.32	116	iPKP	18 39.80	-0.6	
			e	18 42.10		
			e	18 50.30		
			e	19 06.30		
			i	19 29.70		
CER	128.16	195	iPKPc	18 41.00	-0.5	
KIR	128.31	353	ePKP	18 26.00	-14.6X	
MHI	128.67	303	iPKPd	18 42.40	0.0	
	1.4s	298.00nm				
			e	20 47.00		
			eS	32 02.00		
SUR	128.70	197	ePKP	18 42.80	0.1	
	0.8s	169.00nm				
HVD	128.84	202	ePKP	18 45.00	2.0	
AKU	128.92	12	iPKP	18 42.80	1.0	
	1.9s	400.00nm				
			i	19 32.30		
ASH	129.34	305	iPKPc	18 44.00	0.5	
			ePP	20 53.50		
REY	129.38	15	ePKP	18 44.20	1.5	
VAN	129.54	305	ePKP	18 31.20	-12.7X	
VAN	129.54	305	ePKP	18 43.20	-0.7	
	2.0s	360.00nm				
			ipPKP	19 32.00		
			ePP	20 53.00		
			ePS	31 04.00		
BLF	129.92	204	iPKPc	18 45.40	0.3	
SEK	130.04	206	ePKP	18 45.00	-0.4	
KJF	130.47	347	ePKP	18 29.00	-15.8X	
	0.7s	54.70nm				
			i	18 43.00		
			ipPKP	19 35.00		
			ePP	21 00.00		
			iSKP	21 54.00		
			iPKS	22 07.50		
			ipPKS	22 56.00		
			ePS	30 52.00		
			e	34 56.00		
VIR	130.57	205	e(PKP)	18 47.00	0.7	
KIM	130.78	203	ePKP	18 45.90	-0.8	
EVA	130.99	208	ePKP	18 47.00	-0.2	
PRY	131.33	207	ePKP	18 34.50	-13.3X	
			i	18 46.00		
BFS	131.64	206	iPKPc	18 48.30	-0.1	
	0.5s	52.00nm				
BPI	131.74	208	ePKP	18 46.50	-2.2	
CAI	131.88	116	iPKPd	18 48.50	-0.5	
			e	18 50.40		
			e	19 36.80		
SWZ	131.98	204	PKP	18 48.00	-1.0	
SLR	132.01	208	ePKP	18 49.50	0.4	
			i	19 32.00		
PRE	132.03	208	ePKP	18 49.50	0.3	
SUF	132.12	347	iPKP	18 33.40	-14.6X	
	0.5s	4.70nm				
KSR	132.51	207	e(PKP)	18 46.10	-4.0X	
PUL	133.64	343	ePKP	18 51.00	0.1	
			epPKP	19 38.00		
			ePP	21 18.00		
			eSKS	25 35.00		
			eSP	31 22.00		
MOS	134.25	335	iPKPd	18 53.00	0.8	
	2.0s	550.00nm				
NUR	134.42	347	iPKP	18 37.00	-15.4X	
	0.8s	156.00nm				
			i	18 52.00		
			ipPKP	19 42.20		
			ePP	21 24.00		
			iSKP	22 09.00		
			iPKS	22 22.00		
			ipPKS	23 11.00		
			e	34 24.00		
OBN	135.07	335	ePKP	18 42.00	-11.8X	
OBN	135.07	335	iPKP	18 52.00	-1.8	
	1.0s	150.00nm				
	Z 22s	2.20um				5.8Msz
	N 22s	1.60um				
	E 20s	0.80um				
			eSP	31 30.00		
BAK	135.16	311	iPKPc	18 56.00	1.6	
			iPP	21 32.00		
SHI	135.23	295	ePKP	18 44.00	-11.2X	
NB2	135.85	356	PKP	18 39.40	-15.8X	
	1.3s	117.00nm				
SHE	136.00	311	iPKP	18 57.00	1.0	
UPP	136.32	351	iPKP	18 42.00	-14.0X	
			i	18 56.20		
			i	21 29.30		
			i	22 27.20		
			i	23 17.30		
HFS	136.54	354	(PKP)	18 42.00	-14.5X	
BUL	136.59	213	PKP	18 46.00	-12.0X	
BUL	136.59	213	PKPd	19 00.00	2.0	
			iSKP	22 33.00		
GRO	137.01	316	iPKPd	18 58.00	0.1	
	1.0s	300.00nm				
			iPP	21 40.00		
KRV	137.63	312	iPKP	18 49.00	-10.2X	
GRS	138.04	311	iPKPc	18 47.00	-13.2X	
GRS	138.04	311	ePKP	19 01.00	0.8	
			ipPKP	19 51.80		
			iPP	21 53.00		
MTA	138.29	314	iPKPc	18 55.80	-4.5X	
PYA	138.41	318	ePKP	18 51.00	-9.5X	
TAB	138.53	309	ePKP	18 54.00	-7.1X	
ERE	139.10	312	iPKPd	18 54.00	-8.0X	
BKR	139.15	315	iPKP	18 55.00	-7.1X	
LEN	139.33	314	ePKP	19 02.00	-0.5	
MUD	140.54	357	iPKPc	18 56.30	-7.6X	
	1.1s	100.00nm				
SOC	140.73	320	ePKP	18 58.00	-6.7X	
	2.0s	400.00nm				
COP	141.05	354	iPKPc	18 58.00	-6.8X	
	0.9s	128.00nm				
EKA	141.21	8	PKPc	18 58.60	-6.6X	
	1.2s	47.00nm				
ANN	141.46	323	ePKP	18 56.00	-9.9X	
	9.0s	2700.00nm				
			ePP	22 08.00		
			eSKS	25 54.50		
DMU	141.98	12	iPKPc	19 01.50	-5.1X	
	1.0s	200.00nm				
DCN	142.43	12	iPKPc	19 02.20	-5.1X	
	1.7s	660.00nm				
DDK	142.58	12	iPKPc	19 03.60	-4.0X	
	1.3s	230.00nm				
DLE	142.63	12	ePKP	19 03.60	-4.1X	
	1.2s	310.00nm				
VAL	143.03	16	PKP	19 02.00	-6.4X	
			PPS	34 40.00		
SIM	143.20	325	ePKPd	19 05.00	-3.9X	
			ePP	22 21.00		
ETA	143.26	12	iPKPc	19 07.70	-1.1	
	2.0s	720.00nm				
ARO	143.34	266	ePKPd	19 07.00	-3.1X	
ECB	143.46	13	iPKPc	19 06.90	-2.2	
HAM	143.47	355	iPKPd	19 06.30	-2.8X	
GBR	143.62	266	ePKP+	19 10.00	-0.6	
DAF	143.66	266	ePKP+	19 10.60	0.0	
ECP	143.72	12	iPKPc	19 07.70	-1.8	
	2.4s	2200.00nm				
HLD	143.75	266	iPKP+	19 10.80	0.1	
LVV	144.00	339	ePKPd	19 08.00	-2.1	
	Z 20s	2.20um				5.9Msz
	N 20s	1.50um				
	E 20s	1.50um				
			ePP	22 30.00		
			eSKS	26 01.00		
BRL	144.10	352	ePKPd	19 08.50	-1.6	
BRN	144.16	352	iPKPd	19 08.20	-2.1	
WIT	144.29	359	iPKPd	19 09.90	-0.6	
			epPKP	20 00.00		
KIS	144.37	332	iPKPd	19 08.00	-2.8X	
	3.0s	2800.00nm				
	Z 22s	1.90um				5.8Msz
			ipPKP	19 58.00		
			iPP	22 32.00		
KVT	144.37	319	iPKP	19 10.40	-0.7	
IAS	144.80	333	ePKP	19 11.00	-0.6	
DBN	145.01	0	iPKP-	19 11.00	-0.7	
			i	19 15.00		
			epPKP	19 56.00		
			ePP	22 23.00		
			iSKKS	30 32.00		
			iPKKS	32 45.00		
			e	35 05.00		
			iSS	42 56.00		
KRA	145.03	344	iPKPd	19 11.30	-0.6	
	1.1s	1560.00nm				
	Z 22s	3.50um				6.1Msz
	N 22s	2.30um				
	E 22s	2.80um				
			i	19 14.20		
			i	19 21.50		
			i	19 25.20		
			i	19 33.40		
			i	19 52.00		
			i	21 04.00		
			i	22 28.00		
WTS	145.10	358	iPKPd	19 11.40	-0.5	
KSP	145.16	348	iPKPd	19 12.00	-0.1	
	1.2s	588.00nm				
			i	20 02.20		
CLL	145.27	352	iPKP	19 11.90	-0.3	
	1.3s	2600.00nm				
			pPKP	20 01.00		
			sPKP	20 18.00		
CLI	145.42	333	iPKPd	19 13.00	0.3	
BIR	145.49	332	ePKP	19 16.00	3.2X	
PPE	145.54	332	iPKPd	19 13.50	0.6	
BRG	145.55	350	iPKPd	19 13.00	0.3	
	2.2s	2100.00nm				
			i	20 03.50		
UZH	145.60	340	ePKPd	19 13.00	0.1	
	1.5s	5400.00nm				
	Z 20s	1.20um				5.7Msz
	N 20s	1.20um				
			ePP	22 45.00		
			eSKS	26 03.00		
SPC	145.73	343	iPKPd	19 14.30	0.9	
			i	20 04.00		
			e	21 18.10		
			e	22 31.60		
BMR	146.01	338	ePKP	19 14.00	0.4	
CFR	146.07	331	iPKPd	19 14.00	0.3	
MOX	146.10	353	iPKPd-	19 14.00	0.3	
	2.0s	3820.00nm				
	Z 18s	1.60um				5.8Msz
	N 17s	0.60um				
	E 17s	0.70um				
			ipPKP	20 05.00		
			iPP	22 35.00		
BNS	146.12	358	iPKPd	19 13.80	0.1	
	2.3s	6.30nm				
			i	20 05.20		
VRI	146.20	333	iPKPc	19 13.00	-1.0	
JOS	146.27	342	ePKPd	19 14.00	0.0	
UCC	146.31	1	PKPc-	19 14.40	0.5	

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		pPKP	20	06.00	
		PP	22	42.00	
PRU	146.31	349	iPKPd	19	14.00	0.0
Z 24s	2.10um				5.8MszX
N 24s	1.40um				
E 20s	0.70um				
		ipPKP	20	05.00	
		PP	22	36.00	
		PKS	23	34.00	
		SKKS	30	26.00	
		e	37	00.00	
		SS	42	28.00	
AAR	146.35	334	iPKPd	19	11.50	-2.8X
ENN	146.35	359	iPKPd	19	14.10	0.1
		i	19	15.60	
		i	19	19.90	
		ipPKP	20	06.00	
		e	22	13.00	
HOF	146.40	352	iPKPd	19	14.20	0.0
AAE	146.58	260	ePKP	19	14.50	-1.4
TLB	146.58	330	iPKPd	19	15.00	0.4
CJR	146.79	337	ePKP	19	14.50	-0.5
MLR	146.83	333	iPKPd	19	14.00	-1.2
ISR	146.85	332	iPKPc	19	15.00	-0.1
MDB	146.96	335	iPKPd	19	16.00	0.8
PSZ	146.98	342	ePKPd	19	15.00	-0.3
DOU	147.01	1	PKP-	19	15.60	0.5
		i	19	17.80	
		pPKP	20	07.70	
		PP	22	48.00	
		SS	41	47.00	
GRF	147.09	353	iPKPd	19	15.60	0.3
Z 24s	1.30um				5.6MszX
		e	19	22.90	
		e	20	07.20	
GRFO	147.09	353	ePKPd	19	15.00	-0.3
ANTO	147.10	319	PKP	19	16.00	0.3
KHC	147.30	350	iPKPd	19	15.80	0.1
Z 23s	2.50um				5.9MszX
N 21s	2.10um				
E 22s	1.90um				
		e	19	32.50	
		pPKP	20	05.00	
CMP	147.40	334	iPKPc	19	16.00	0.0
WET	147.40	351	iPKPd	19	15.90	0.1
WLF	147.45	359	PKP-	19	18.00	2.2
		pPKP	20	10.00	
		PP	22	48.00	
		i	43	40.00	
ZST	147.48	345	iPKPc	19	15.40	-0.5
		i	20	06.90	
		i	20	46.90	
SRO	147.52	344	iPKPd	19	14.20	-1.8
		i	20	03.10	
		i	21	13.20	
		i(PP)	22	48.20	
VKA	147.59	346	iPKPd	19	16.40	0.3
2.3s	3260.00nm				
		i	19	22.20	
		i	20	05.80	
		i	20	09.30	
		e	26	32.30	
		e	26	50.80	
BUD	147.63	343	iPKPd	19	15.90	-0.3
COZ	147.64	335	iPKPc	19	17.00	0.5
BUC1	147.69	332	ePKP	19	18.00	1.6
DEV	147.74	337	iPKPc	19	29.00	12.6X
CGN	147.84	332	iPKPd	19	21.00	4.4X
FLN	147.99	7	iPKPd	19	17.00	0.3
GWF	148.09	357	iPKP	19	16.60	-0.3
STU	148.20	355	iPKPd	19	16.90	-0.2
DRA	148.20	334	ePKP	19	17.00	-0.2
LDF	148.20	7	iPKPd	19	17.40	0.3
KMR	148.24	349	iPKP-	19	17.20	0.0
		i	19	21.50	
GRR	148.31	8	iPKPd	19	17.80	0.6
GPA	148.35	322	iPKP	19	17.10	-0.5
BUH	148.36	356	ePKPd	19	17.50	0.1
HRT	148.37	323	ePKP	19	21.80	4.1X
STR	148.47	357	iPKPd	19	18.00	0.5
ISK	148.55	324	ePKP	19	17.50	-0.4
FUR	148.58	352	iPKPd	19	17.70	0.0
		i	19	22.20	
		i	19	25.00	
LPF	148.64	8	iPKPd	19	18.20	0.4
CDF	148.67	358	ePKP	19	18.30	0.3
BHG	148.78	350	iPKPd	19	18.10	0.0

CTT	148.84	325	iPKP	19	18.00	-0.3
ECH	148.87	358	iPKPd	19	17.40	-0.8
PVL	149.02	331	iPKPd	19	19.00	0.5
SSR	149.04	337	ePKP	19	19.00	0.5
HAU	149.10	359	iPKPd	19	18.80	0.2
ALT	149.25	320	ePKP	19	19.10	-0.1
SLE	149.25	356	ePKPd	19	18.50	-0.3
BAF	149.26	358	iPKPd	19	18.50	-0.4
BSF	149.27	358	ePKP	19	19.20	0.3
KBA	149.33	349	PKPd	19	18.00	-1.1
0.7s	280.00nm				
		e	19	22.70	
		i	19	26.30	
		i	20	13.90	
		e	22	37.60	
		i	23	08.30	
ZUL	149.54	356	ePKPd	19	18.80	-0.5
EDC	149.71	325	iPKPd	19	19.00	-0.7
MFT	149.72	326	iPKP	19	19.50	-0.3
DST	149.77	323	iPKPd	19	19.70	-0.2
LOR	149.82	2	iPKPd	19	20.30	0.6
OGA	149.89	352	iPKPd	19	20.30	0.3
RBL	149.90	349	PKP	19	20.00	0.1
SSF	150.02	3	iPKPd	19	20.60	0.7
KDZ	150.08	329	iPKPd	19	19.00	-1.2
LJU	150.09	347	iPKPd	19	20.20	0.1
		i	19	25.60	
		i	20	10.60	
		e(PP)	23	44.10	
LLS	150.10	355	ePKPd	19	20.30	0.0
MFF	150.16	8	iPKPd	19	20.70	0.6
AVF	150.28	3	iPKPd	19	20.50	0.2
VTS	150.33	333	iPKPd	19	20.00	-0.5
CEY	150.40	347	iPKPd	19	20.50	-0.1
SMF	150.45	2	ePKP	19	21.10	0.5
BGF	150.49	4	iPKPd	19	21.10	0.5
TRI	150.57	348	iPKP	19	20.50	-0.3
		i	20	12.10	
		eSKP	22	55.40	
		e	24	04.00	
		eSKS	33	16.00	
		e	34	16.00	
		eSPP	37	28.00	
		e	38	22.00	
		eSS	43	24.00	
		esSS	44	10.00	
		eSSS	49	36.00	
CTI	150.61	351	PKP	19	20.50	-0.5
		e	19	26.50	
		e	23	05.00	
LSF	150.69	5	iPKPd	19	21.10	0.1
TCF	150.71	5	iPKPd	19	21.40	0.4
ELL	150.76	317	iPKPd	19	21.00	-0.5
MZF	150.81	4	iPKPd	19	21.90	0.7
TMA	150.87	355	ePKPd	19	21.10	-0.4
MMK	150.99	356	ePKPd	19	22.20	0.5
DIX	150.99	357	ePKPd	19	22.50	0.7
SAL	151.19	353	PKP	19	21.50	-0.2
		e	19	28.50	
		e	22	38.00	
PRK	151.35	325	ePKP	19	22.00	-0.1
IZM	151.37	322	iPKPd	19	22.10	-0.2
ORO	151.41	356	PKP	19	21.50	-0.7
		e	19	28.50	
		e	23	07.50	
YER	151.57	319	ePKP	19	22.50	-0.1
SKO	151.60	334	iPKPd	19	22.20	-0.3
		i	19	29.20	
		i	19	39.00	
		iPP	23	11.00	
		iSKSP	33	24.00	
RJF	151.63	6	iPKPd	19	23.10	0.7
VAY	151.64	332	iPKP	19	21.50	-1.0
		i	19	27.30	
LFF	151.91	7	iPKPd	19	23.60	0.8
VG1	152.02	354	PKP	19	23.50	0.6
		e	19	30.50	
		e	23	16.00	
CAF	152.05	5	iPKPd	19	23.80	0.7
LPO	152.21	6	iPKPd	19	24.00	0.7
OHR	152.58	334	iPKPd	19	23.80	-0.2
		i	19	31.80	
		i	19	42.30	
PRT	152.81	351	PKP	19	26.50	2.4
		pPKP	20	01.00	
		PP	23	56.00	
KZN	152.82	332	ePKP	19	24.00	-0.4

STV	152.83	357	PKP	19	24.00	-0.3
FIR	152.88	351	PKP	19	24.00	-0.2
			PP	23	15.00	
			e	29	46.00	
FRF	153.54	358	ePKP	19	25.30	0.2
LRG	153.65	358	iPKPd	19	26.20	0.9
ATH	153.66	326	iPKPd	19	25.00	-0.5
EPF	153.73	8	ePKP	19	26.30	0.8
POI	153.74	347	PKP	19	25.00	-0.4
LMR	153.77	358	ePKP	19	25.80	0.4
AQU	153.85	346	PKP	19	26.00	0.3
			e	23	12.00	
MNS	153.98	348	PKP	19	25.00	-0.7
			e	23	14.00	
FOG	154.15	342	PKP	19	39.50	13.5X
DUI	154.25	344	PKP	19	26.50	0.4
LCI	154.36	337	PKP	19	27.00	0.7
			e	23	27.00	
CVF	154.38	354	iPKPd	19	26.70	0.3
NPS	154.42	319	ePKP	19	27.50	0.9
RMP	154.52	347	PKPd	19	26.00	-0.5
			e	23	20.00	
			e	26	08.00	
RDP	154.57	347	PKP	19	27.00	0.3
			e	19	50.50	
			e	23	26.50	
SGO	155.04	342	PKP	19	27.00	-0.2
			e	23	22.00	
VLS	155.07	331	ePKP	19	27.50	0.1
ORI	155.14	340	PKP	19	27.00	-0.3
EBR	155.92	9	ePKP	19	24.00	-4.4X
			ePP	23	30.00	
GIB	157.80	342	PKP	19	34.00	3.0X
SFS	158.09	26	iPKPd	19	34.00	2.8X
			e	20	10.00	
			ePP	23	44.00	
			e	27	08.00	
			eSKS	34	15.00	
			e	38	20.00	
ALI	158.14	13	iPKP+	19	33.50	2.3
			iPP	23	47.50	
ERC	158.14	345	PKP	19	31.50	0.3
			e	23	45.00	
MEI	158.17	339	PKP	19	31.20	-0.1
			e	23	42.00	
ALM	159.07	18	iPKPd	19	32.70	0.4
1.5s	6.10nm				
			i	20	10.90	
			i	21	01.50	
KIC	165.48	136	iPKPd	19	39.00	-0.3
			i	20	29.00	
S.D. = 0.9 on 461 of 529 obs.						
JUN 02, 1983 20h 12m 50.26± 0.06s						
9.501 S ± 1.4km 71.219 W ± 1.9km						
DEPTH = 592.6km (57 depth phases)						
5.9mb (97 obs.)						
PERU-BRAZIL BORDER REGION (112)						
HUA	4.76	238	iPc	14	23.70	1.9
			iS	15	35.00	
NNA	6.05	245	iPc	14	32.80	0.7
0.9s	555.00nm				5.6mb	
			eS	15	43.60	
PT02	6.16	236	iPc	14	33.40	0.4
			eS	15	50.00	
PT03	6.32	225	iPd	14	36.40	2.0
ARE	6.92	182	iPd	14	40.70	0.5
			iS	16	06.00	
ZOBO	7.37	156	iPd	14	45.00	0.4
LPB	7.62	157	iPd-	14	47.50	0.7
1.2s	1380.00nm				5.9mb	
			S	17	08.00	
PSO	12.24	330	iP	15	35.00	3.2X
CAC	13.08	171	eP	15	41.00	1.1
			i	15	42.70	
OAS	13.70	174	eP	15	47.20	1.3
YJA	13.74	157	iP	15	47.20	0.5
ANT	14.15	177	iPc	15	50.80	0.7
BOG	14.31	348	iP	15	54.50	2.3
			iS	17	50.00	
CHN	15.03	343	iP	16	03.00	4.1X
FUQ	15.08	350	iP	16	00.00	0.4
SLA	16.10	161	iPc	16	10.00	0.8
			S	18	50.60	
UAV	17.99	0	eP	16	31.50	4.1X
SDV	18.28	2	iPd	16	31.50	1.4

	0.6s	77.70nm			5.4mb
TOV	19.21	4	eP	16 39.30	0.7
	0.5s	70.90nm			5.5mb
LGN	19.52	360	i(P)	16 44.50	3.2X
GAL	20.55	349	iP	16 51.50	0.7
CEN	22.08	174	P	17 04.30	-0.4
ITB	22.22	135	iP	17 03.30	-2.6
TCA	22.59	165	ePd	17 07.40	-1.9
JACH	23.08	179	iP	17 12.80	-0.9
BAO	23.46	107	iPd	17 17.50	0.2
PEL	23.53	179	iPd	17 16.80	-0.9
	0.8s	201.00nm			5.8mb
FCH	23.73	178	iPd	17 19.70	-0.1
BACH	23.75	178	iP	17 19.00	-0.6
SAN	23.84	179	iPd	17 19.50	-0.9
PCH	24.01	179	iP	17 21.80	-0.2
CHCH	24.32	179	iPd	17 23.60	-1.1
LNV	24.34	180	iP	17 23.60	-1.1
RFA	25.28	175	iPd	17 32.60	-0.5
VAO	26.82	123	eP	17 45.20	-1.5
			e	17 55.10	36kmX
			i	19 38.20	
			i	20 48.50	
			e	21 37.90	
			e	23 32.20	
LPA	28.06	156	iPd-	17 56.00	-1.2
	0.8s	955.00nm			6.5mb
BMA	29.06	120	iPc	18 05.50	-0.6
			e	18 06.70	4kmX
			e	18 13.20	
SSS	29.14	322	eP	18 09.30	2.5
			eS	22 24.40	
LPS	29.59	323	eP	18 11.80	1.1
			eS	22 29.50	
VBA	29.62	165	iPc	18 08.80	-1.9
SOB1	29.92	92	iP	18 14.30	0.8
CAI	33.87	88	iPc	18 46.90	0.2
VHO	36.63	316	iP	19 12.00	2.5
ACX	38.58	313	iP	19 26.60	1.3
IIT	38.94	317	ePc	19 31.00	2.5
IIP	39.58	316	iPc	19 36.20	2.5
TAC	39.81	316	iP	19 39.00	3.5X
IIC	40.10	317	iPc	19 40.00	2.1
CRX	40.15	316	iPc	19 40.50	2.3
SBK	42.70	349	eP	19 58.50	0.7
			ePcP	21 36.50	
ZIN	43.22	349	iPd	20 02.70	0.8
OSB	43.78	348	ePd	20 06.60	0.4
			ePcP	21 39.00	
MTT	44.14	348	iPd	20 09.30	0.3
HKT	45.82	330	iP	20 22.50	0.5
TKL	46.45	346	iPd	20 26.00	-0.8
FMTX	46.84	332	iP	20 30.60	0.9
RSCP	46.86	344	iPd	20 29.30	-0.6
PWLA	47.02	341	iPd	20 29.50	-1.6
			iPcP	21 49.80	
			iS	26 34.00	
ATX	47.15	328	iP	20 31.70	-0.4
BLA	47.26	350	iP-	20 33.10	0.2
	1.2s	1390.00nm			6.4mb
			ipP	21 51.20	390kmX
			iS	26 42.80	
MZX	47.36	314	iPd	20 34.50	0.7
NAV	47.43	350	iPd	20 34.40	0.2
NA12	47.64	353	iPc	20 35.60	-0.1
CVL	47.72	352	eP	20 36.20	-0.1
OKG	48.20	340	ePd	20 37.99	-2.0
JCT	48.31	326	iPd	20 40.20	-0.8
	0.8s	153.00nm			5.6mb
			e	22 32.00	628kmX
GRT	48.64	340	ePd	20 41.33	-1.9
OLY	48.68	338	eP	20 37.20	-6.3X
			eS	26 57.50	
PGA	48.87	339	ePd	20 43.21	-1.7
LST	48.98	340	ePd	20 44.04	-1.7
WCK	49.07	341	ePd	20 44.05	-2.3
POW	49.15	339	ePd	20 45.05	-1.9
RMB	49.49	340	ePd	20 47.35	-2.1
ELC	49.51	341	ePd	20 47.15	-2.4
MRG	49.55	351	iP	20 49.80	0.0
			iS	27 14.80	
CSIL	49.69	342	ePd	20 48.85	-2.0
PRIN	49.72	356	iPc	20 50.70	-0.3
NHIL	49.77	342	ePd	20 49.32	-2.2
WDIN	49.79	343	ePd	20 49.13	-2.5
BPIL	50.15	342	ePd	20 52.02	-2.3
SPIN	50.18	343	ePd	20 51.54	-2.9

GMTN	50.20	357	iP	20 54.40	-0.2
			i	22 03.20	329kmX
			i	22 43.50	
GPD	50.35	357	iPc	20 55.60	-0.1
IN3	50.37	345	iPd	20 54.30	-1.6
FVM	50.54	340	ePd	20 55.21	-2.0
RLO	50.66	335	iPd	20 57.20	-0.9
TUL	50.76	334	iPd-	20 58.30	-0.6
	0.7s	14.00nm			4.5mb X
	Z 20s	1.02um			4.8Msz
	N 22s	0.46um			
	E 21s	0.69um			
			e	22 00.30	290kmX
			e	22 43.00	
			iS	27 19.50	
SLM	51.06	341	ePd	20 58.63	-2.4
TYS	51.07	340	ePd	20 58.80	-2.3
OCO	51.19	332	iPd	21 01.30	-0.6
			(Lg)	27 26.50	
AN10	51.21	347	iPd	21 00.50	-1.5
IN2	51.26	345	iPd	21 00.40	-2.0
AN11	51.34	347	iPd	21 01.20	-1.8
RRO	51.54	332	iPd	21 04.90	0.4
	0.5s	595.00nm			6.3mb
AN12	51.58	347	iPd	21 03.30	-1.3
IN1	51.61	346	Pd	21 02.80	-2.0
ATO	51.70	332	iP	21 04.40	-1.3
LUB	51.82	327	eP	21 05.50	-1.1
PCO	51.94	334	iPd	21 07.10	-0.2
			e	22 09.50	291kmX
DHN	52.46	354	iPd	21 10.20	-0.8
			iPcP	22 10.70	
AAM	52.79	348	iPd	21 11.80	-1.6
ACO	52.92	332	iPd	21 13.90	-0.5
	0.6s	324.00nm			5.9mb
DLA	52.96	350	P	21 13.00	-1.5
APH	53.17	357	iPd	21 15.50	-0.5
			epP	23 07.80	601km
ELF	53.24	351	P	21 15.20	-1.3
BNH	53.84	360	iPd	21 20.50	-0.2
			iPcP	22 16.70	
RSNY	53.88	357	iPd	21 20.50	-0.4
			iPcP	22 15.00	
			ipP	23 12.90	598km
PTN	53.93	357	iPd	21 20.40	-0.9
EMM	54.09	3	iPd	21 22.40	0.0
			epP	23 16.20	608kmX
MIM	54.52	2	iPd	21 25.10	-0.3
OTT	54.79	356	eP	21 26.30	-1.0
	1.4s	628.00nm			5.8mb
MNT	54.79	358	iPd	21 27.00	-0.3
	0.8s	1400.00nm			6.3mb
ALQ	55.36	325	iPd	21 31.00	-0.7
	0.9s	149.00nm			5.3mb
			ePcP	22 20.00	
			epP	23 24.00	595km
ANMO	55.36	325	iPd	21 31.30	-0.4
			e	23 25.00	600km
CBM	56.25	3	iPd	21 37.30	0.0
GLD	58.26	330	iPc	21 51.80	0.4
	1.5s	2500.00nm			6.2mb
	Z 18s	2.76um			5.4Msz
GOL	58.30	329	iPd	21 51.50	-0.3
			eS	29 09.50	
STJ	59.15	14	eP	21 55.50	-1.4
	0.5s	590.00nm			6.1mb
			pP	23 52.00	602km
GLA	59.28	318	iPd	21 58.30	0.2
			eS	29 22.00	
LHC	59.83	346	iPd	22 00.00	-1.4
RSSD	61.10	334	iPc	22 10.10	0.0
MSU	61.13	324	iPc	22 10.70	0.3
			eS	29 48.20	
BKU	61.70	323	iPd	22 14.60	0.5
			eS	29 53.00	
PAS	62.17	317	iPd	22 17.00	0.1
			ePcP	22 34.00	
			epP	24 16.00	606kmX
			ePP	25 05.00	
			iS	30 00.00	
			eSP	30 26.00	
			eScS	31 07.00	
			esS	33 26.00	
			eSS	34 30.00	
			eSSS	38 01.00	
RKT	62.25	249	iP	22 12.00	-5.6X
DUG	62.63	325	iPd	22 20.30	0.4

BDW	62.70	329	iPd	22 19.80	-0.6
MOUT	62.79	326	iPd	22 21.00	-0.1
WPEM	62.99	319	iPd	22 22.80	0.5
RSON	63.20	344	iPd	22 21.80	-1.4
			eS	29 59.80	
WKTM	63.31	318	iPc	22 25.00	0.7
BEI	63.38	327	ePd	22 24.40	-0.4
SCCM	63.98	316	ePc	22 29.30	0.8
EUR	64.00	323	iP	22 29.80	1.0
SCH	64.18	3	iPd	22 28.10	-1.2
			pP	24 26.60	595km
IMW	64.20	329	iPd	22 30.10	0.1
TMI	64.29	328	iPd	22 30.10	-0.4
PHAM	64.63	317	ePd	22 33.00	0.4
			eS	30 29.00	
MNA	64.69	321	iPd	22 33.50	0.4
FRI	64.84	319	iPd	22 32.90	-0.8
PRI	64.98	317	iPd	22 35.10	0.2
BMN	65.35	323	iPd	22 36.90	-0.2
			epP	24 35.40	590km
			eS	30 33.80	
JAS	65.86	319	iPd	22 40.40	0.3
			e	26 38.00	
			e	30 41.00	
ARN	66.24	318	iPc	22 43.50	1.0
			eS	30 49.30	
MHC	66.31	318	iPd	22 43.90	0.9
			e	24 44.00	598km
LRM	66.32	330	iPd	22 43.20	0.1
BKS	66.99	318	iPd	22 47.60	0.6
	0.8s	70.00nm			5.2mb
			e	23 20.60	135kmX
			e	24 47.00	
			e	25 21.80	
			iS	30 57.70	
			e	31 47.00	
			e	32 32.00	
			e	33 29.00	
ORV	67.46	320	iPd	22 50.60	0.8
NWRM	67.74	318	iPd	22 52.30	0.8
KIC	68.08	79	iPd	22 54.10	0.0
			e	24 51.40	574kmX
			S	31 06.50	
RMT	68.41	320	iP	22 55.30	-0.2
WDC	68.70	320	iPd	22 56.00	-1.3
			e	24 55.00	583km
			e	31 10.90	
LGBM	68.91	321	iPd	22 58.90	0.0
			ePcP	24 34.00	
			epP	25 02.00	609kmX
SES	68.97	334	iPd	22 59.00	0.2
	0.5s	386.00nm			6.2mb
			pP	24 56.00	569kmX
FFC	69.01	341	iPd	22 58.20	-0.7
			pP	24 58.00	587km
PNO	69.48	326	ePd	23 02.00	0.2
LDM	69.56	330	iP-	23 02.50	0.2
FHC	69.73	320	iPd	23 04.90	1.4
NEW	70.32	329	iPd	23 06.40	-0.4
			e	25 06.00	582kmX
FCC	76.50	348	iPd	23 07.30	-0.2
	0.6s	502.00nm			6.2mb
COR	71.43	324	iPd	23 13.00	-0.2
SHW	71.75	325	iPc	23 15.90	0.7
LON	71.85	326	iPd	23 16.20	0.5
EDM	72.01	335	iPd	23 26.00	9.5X
			pP	25 16.50	521kmX
PNT	72.26	329	iPd	23 18.50	0.5
	1.0s	552.00nm			6.0mb
			pP	25 20.00	588km
BFW	72.47	325	iPc	23 20.30	1.0
			epP	25 22.30	591km
GMW	72.86	326	iPd	23 21.80	0.4
			eS	32 03.00	
FRB	73.06	1	eP	23 21.00	-1.1
MCW	73.55	327	iPd	23 26.20	0.9
			epP	25 28.80	591km
			eS	32 10.50	
PGC	73.86	327	iPd	23 28.00	1.1
	0.7s	292.00nm			5.9mb
RUV	74.31	257	iP	23 30.80	0.8
	1.1s	175.00nm			5.5mb
VAH	74.54	257	iP	23 32.00	0.7
	1.1s	185.00nm			5.5mb
TPT	74.56	257	iP	23 32.40	1.0
	1.1s	200.00nm			5.6mb
PMO	74.82	257	iP	23 33.80	0.9

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02d 20h

	1.1s	240.00nm			5.6mb
LIS	74.97	46	iPd	23 35.00	1.7
			iS	32 27.40	
PAE	76.16	254	iP	23 41.40	1.2
	1.1s	220.00nm			5.6mb
PPT	76.17	254	iP	23 41.70	1.4
	1.1s	170.00nm			5.5mb
SFS	76.18	49	eP	23 42.00	2.0
			e	25 46.00	593km
			iS	32 44.00	
AFR	76.36	254	iP	23 42.40	1.1
	1.1s	480.00nm			5.9mb
PTO	76.40	44	iPd	23 42.00	1.0
			iPP	25 45.00	
			iS	32 40.00	
PHC	77.16	327	iPd	23 45.50	0.6
	0.8s	338.00nm			5.8mb
			pP	25 49.00	587km
ALM	79.12	50	iPd	23 55.80	0.2
	1.1s	6.20nm			4.0mb X
			iPP	26 03.30	
			iS	33 09.20	
YKC	79.13	341	iPd	23 55.00	-0.1
	0.8s	334.00nm			5.8mb
RSNT	79.17	341	iPc	23 55.50	0.2
			eS	33 03.00	
YKA	79.19	341	eP	23 56.20	0.8
GDH	79.53	6	iPd	23 56.10	-0.9
	0.5s	211.00nm			5.8mb
			i	33 05.00	
SPA	80.56	180	iPc	24 02.90	0.1
	1.0s	395.00nm			5.9mb
			e	26 10.00	601km
LGR	81.10	44	iPd	24 07.80	2.0
	1.7s	1.20nm			3.1mb X
			ipP	26 13.80	593km
			i(PP)	26 22.50	
			iS	33 26.50	
ALI	81.11	49	iP+	24 06.50	0.7
			iPP	26 13.50	
REY	82.26	20	iPd	24 12.80	1.7
			i	26 19.40	594km
ECB	82.45	34	eP	24 11.80	-0.4
ECP	82.59	34	iPc	24 12.60	-0.3
	1.6s	870.00nm			6.0mb
DCN	82.61	33	iPc	24 13.20	0.2
	2.0s	1680.00nm			6.2mb
EBR	82.64	47	eP	24 14.00	0.5
			e	26 21.00	596km
			eS	33 38.00	
			e	37 31.00	
ETA	82.90	34	iPc	24 14.50	0.0
	1.4s	860.00nm			6.1mb
DLE	82.98	33	iPc	24 14.90	0.0
	2.3s	2460.00nm			6.3mb
DMU	83.06	32	iPc	24 15.30	0.0
	1.8s	1680.00nm			6.3mb
DDK	83.14	33	iPc	24 15.60	0.0
	2.3s	1760.00nm			6.2mb
EPF	83.26	44	iPd	24 17.70	1.0
LPF	84.09	39	iPd	24 20.70	0.2
	0.6s	469.00nm			6.3mb
MFF	84.15	41	iPd	24 21.30	0.4
	0.5s	172.00nm			5.9mb
LFF	84.17	43	iPd	24 21.50	0.5
	0.8s	275.00nm			5.9mb
GRR	84.33	39	iPd	24 22.00	0.3
	0.7s	350.00nm			6.1mb
SIT	84.37	330	ePd	24 22.50	0.8
LPO	84.39	43	iPd	24 22.50	0.4
	1.0s	144.00nm			5.6mb
AKU	84.50	19	iPd	24 24.00	1.9
	1.7s	554.00nm			5.9mb
			i	26 30.90	592km
OKP	84.67	119	iPd	24 23.30	-0.6
	0.5s	25.00nm			5.1mb
			i	26 30.00	590km
FLN	84.70	39	iPd	24 24.00	0.5
	0.9s	405.00nm			6.1mb
RJF	84.81	43	iPd	24 24.20	0.1
	0.8s	90.00nm			5.5mb
LDF	84.86	39	iPd	24 24.70	0.4
	0.9s	450.00nm			6.1mb
CAF	85.06	43	iPd	24 25.70	0.3
	0.7s	109.00nm			5.6mb
LSF	85.13	42	iPd	24 25.70	0.1
	0.8s	62.50nm			5.3mb
TUH	85.17	123	eP	24 24.50	-1.6
TCF	85.59	42	iPd	24 27.80	-0.1
	0.7s	70.00nm			5.5mb
EKA	85.64	32	Pd	24 27.50	-0.3
	1.2s	142.00nm			5.5mb
MZF	85.81	42	iPd	24 29.10	0.2
	1.1s	113.00nm			5.6mb
BGF	86.09	42	iPd	24 30.40	0.2
AVF	86.49	42	iPd	24 32.10	0.0
	0.8s	55.00nm			5.3mb
SSF	86.68	41	iPd	24 32.80	-0.2
	1.1s	102.00nm			5.5mb
SMF	86.77	42	iPd	24 33.70	0.2
	1.2s	203.00nm			5.7mb
LOR	86.97	41	iPd	24 34.10	-0.3
	1.0s	131.00nm			5.6mb
SBA	87.16	190	iP	24 35.50	0.6
LRG	87.59	45	iPd	24 37.90	0.6
	1.1s	147.00nm			5.7mb
LMR	87.66	46	iPd	24 38.10	0.4
	1.1s	160.00nm			5.7mb
FRF	87.82	45	iPd	24 38.70	0.3
	0.9s	118.00nm			5.7mb
PCA	88.00	332	iPc	24 39.50	0.5
DOU	88.27	39	iPd-	24 40.50	0.2
	0.8s	1000.00nm			6.7mb
			pP	26 49.00	594km
			pPPP	31 10.00	
			SKS	34 12.50	
			S	34 33.80	
			SP	35 45.00	
			sSKS	38 16.00	
UCC	88.33	38	Pc-	24 41.00	0.4
			pP	26 49.30	592km
			SKS	34 14.00	
			S	34 36.00	
			SP	35 42.00	
SYO	88.44	160	iP	24 41.40	0.5
STV	88.46	45	P	24 41.50	0.0
			PP	26 51.50	
HAU	88.79	41	iPd	24 42.80	-0.1
	1.5s	144.00nm			5.7mb
INK	88.94	341	iPd	24 43.70	0.6
	0.3s	241.00nm			6.6mb
DIX	88.99	43	ePd	24 44.60	0.5
BSF	89.03	41	iPd	24 43.90	-0.2
	1.5s	207.00nm			5.8mb
CVF	89.15	47	iPd	24 44.90	0.3
	1.3s	87.80nm			5.5mb
BAF	89.17	41	iPd	24 44.50	-0.2
DBN	89.20	37	iP-	24 46.00	1.5
			ipP	26 53.00	584km
			iSKS	34 18.00	
			iS	34 43.00	
			esSS	38 22.00	
ORO	89.26	44	Pd	24 45.00	-0.2
			PP	26 54.20	
ENN	89.27	38	iPd	24 45.30	0.4
	0.9s	191.00nm			6.0mb
			epP	26 53.50	590km
			eS	34 39.50	
MMK	89.36	43	iPd	24 46.60	0.8
ECH	89.37	41	iPd	24 45.60	0.1
CDF	89.50	41	iPd	24 46.20	0.0
	1.1s	152.00nm			5.8mb
VG1	89.86	44	P	24 48.50	0.8
GWF	89.86	40	iPd	24 48.10	0.3
TMA	89.98	43	iPd	24 48.40	-0.2
ZUL	89.99	42	ePd	24 48.50	0.1
MBC	90.10	350	iPd	24 49.00	0.7
	0.5s	288.00nm			6.5mb
WTS	90.14	37	iPd	24 49.60	0.7
	1.1s	171.00nm			5.9mb
			i	24 52.10	
			ipP	26 58.90	596km
			eS	34 43.50	
BUH	90.17	41	eP	24 48.90	-0.3
LLS	90.25	43	ePd	24 50.00	0.2
WIT	90.27	36	ePd	24 51.00	1.6
			ipP	26 58.60	586km
HON	90.44	291	ePd	24 51.80	0.9
KIP	90.47	292	iPc	24 52.00	1.0
TNS	90.69	39	iPd	24 52.10	0.5
KIM	90.69	119	iPd	24 54.90	2.7
	0.9s	106.00nm			5.8mb
			i	26 59.70	569kmX
STU	90.82	41	iPd-	24 52.00	-0.1
	1.0s	120.00nm			5.9mb
HVD	90.94	121	iPd	24 53.70	0.3
			i	27 01.90	588km
ERC	90.95	52	P	24 53.50	0.6
			PP	27 03.60	
SAL	91.00	44	P	24 53.50	0.5
			PP	27 02.50	
PRT	91.02	46	P	24 54.50	1.4
			pP	27 09.00	626kmX
			S	34 32.50	
FIR	91.12	46	P	24 52.00	-1.6
			(S)	35 00.00	
DAG	91.21	11	iPd	24 53.70	0.3
	0.9s	134.00nm			6.0mb
			i	27 03.00	595km
GRM	91.28	124	iPd	24 53.30	-1.4
	0.4s	1150.00nm			7.3mb X
SWZ	91.47	118	iPd	24 55.00	-0.8
			e	27 05.00	598km
OGA	91.60	43	iPd	24 56.40	0.3
			i	27 05.40	593km
RDP	91.77	48	Pd	24 57.50	0.8
			PP	27 07.00	
RMP	91.77	48	Pd	24 57.50	0.8
	1.5s	0.80nm			3.5mb X
			pP	27 07.00	595km
			PP	28 04.00	
			S	33 32.00	
BLF	91.83	120	eP	24 56.50	-1.0
	0.5s	41.00nm			5.7mb
			e	27 06.60	599km
MNS	91.86	47	P	24 57.70	0.7
			PP	27 07.00	
ALE	91.96	1	iPd	24 56.70	0.0
	0.4s	49.00nm			5.9mb
FUR	92.04	42	iPd	24 58.30	0.5
	1.0s	145.00nm			6.0mb
GIB	92.05	52	Pd	24 58.50	0.3
			PP	27 08.00	
POI	92.09	47	P	24 58.50	0.4
GRF	92.32	40	iPd	24 59.70	0.7
	1.7s	206.00nm			5.9mb
HAM	92.33	36	iPd	25 00.00	1.1
AOU	92.38	48	P	25 00.50	1.0
			PP	27 09.00	
PME	92.56	332	iPd	24 59.50	-0.3
	1.0s	130.00nm			5.9mb
			e	27 08.00	589km
MUD	92.58	33	iPd	25 01.10	1.1
	1.0s	126.00nm			5.9mb
PMR	92.59	332	iPd	24 59.70	-0.3
			epP	27 07.30	584km
VIR	92.62	119	eP	25 00.00	-1.1
MOX	92.76	39	iPd-	25 01.50	0.5
	2.1s	400.00nm			6.1mb
			ipP	27 11.00	595km
			ePP	28 54.00	
			iSKS	34 40.00	
			eSP	36 30.00	
MEI	92.78	53	P	24 57.00	-4.4X
BFS	92.80	118	iPd	25 00.70	-1.3
	0.7s	111.00nm			6.0mb
			i	27 09.20	589km
HOF	92.86	40	iPd	25 02.10	0.6
	2.5s	692.00nm			6.3mb
			e	36 33.00	
COL	92.90	335	iP	25 01.50	0.1
			e	27 08.00	578kmX
			e	34 37.00	
FBA	92.90	335	iPd	25 01.00	-0.4
BHG	93.01	42	iPd	25 02.80	0.5
DUI	93.03	48	P	25 03.00	0.6
			PP	27 13.00	
KSR	93.11	117	iPd	25 02.50	-1.0
			i	27 12.00	595km
KBA	93.20	43	iPd	25 03.30	-0.1
	0.9s	45.50nm			5.6mb
			i	25 06.80	
			epP	27 12.40	592km
			e	34 32.50	
			e	34 39.30	
SEK	93.23	119	iPd	25 04.00	0.0
TRI	93.24	44	iPc	25 03.50	0.2
			iPP	27 12.50	
WET	93.27	41	iPd	25 03.90	0.4
	1.2s	134.00nm			5.9mb
			i	27 12.60	590km

'02d 20h

			eS	34	42.00			N	16s	1.40um						MRRJ	136.69	325	PKP	30	59.00	-8.7X
KDC	93.33	328	iPd	25	03.40	0.0		E	16s	2.60um						NWAO	137.05	190	ePKP	30	55.00	-13.8X
PRY	93.40	118	iPc	25	02.50	-2.2				i	25	27.40				PMG	137.43	245	ePKP	30	59.00	-10.9X
			e	27	06.60	564kmX				i	25	30.60				KLG	138.14	196	ePKP	30	58.00	-12.8X
SGO	93.48	50	Pd	25	06.00	1.5				epP	27	34.50	594km			MUN	138.15	189	iPKPc	30	59.10	-11.7X
			PP	27	15.00					e	29	32.40				LAT	138.68	249	ePKP	31	04.00	-8.2X
CEY	93.70	44	iPd	25	05.80	0.3				e	35	05.00				BAL	139.40	191	ePKP	31	03.00	-10.1X
			i(pP)	27	14.80	592km		SPC	98.07	41	iP	25	26.80	1.4		MOM	139.86	255	ePKP	31	07.00	-7.3X
			eS	34	43.60					e	27	35.80	592km			MDG	140.32	250	ePKP	31	09.00	-6.2X
			e(sS)	38	07.50			JOS	98.20	42	iPd	25	26.30	0.6		WBN	140.57	206	iPKPd	31	07.10	-8.3X
KHC	93.72	41	iPd	25	06.00	0.5		SKO	98.24	49	iPd	25	26.20	0.1		WDJ	140.65	336	PKPc	31	07.80	-7.1X
			pP	27	15.00	592km			Z 20s	1.00um				5.3Msz					pPKP	33	21.00	
			e	28	03.00				E 24s	2.70um									PP	34	01.00	
			e	34	42.00					i	27	36.20	598km						PKS	34	44.00	
			e	36	40.00					i	35	05.00				KAKJ	141.03	318	PKP	31	08.70	-7.1X
			P'P'	50	11.50					i	36	04.00				TSK	141.07	318	ePKP	31	07.60	-8.3X
CLL	93.75	39	iPd	25	06.00	0.5				i	37	22.00				NIIJ	141.18	320	PKP	31	09.10	-6.9X
	2.4s	430.00nm				6.2mb		VAY	99.03	50	eP	25	30.00	0.4		WMO	141.20	25	PKP	31	10.00	-6.0X
			epP	27	15.00	592km		ATH	99.65	53	eP	25	32.00	-0.4					pPKP	33	32.00	
			eSKS	34	44.00						eS	35	12.00						PP	34	13.00	
			eS	35	22.00			ANM	100.30	334	ePdiff	25	36.00	1.3		WB2	141.40	221	ePKP	31	10.20	-6.7X
LJU	93.83	44	iPd	25	06.50	0.5		COZ	100.58	46	iPdiff	25	37.00	0.3					i	33	56.50	
			e	27	15.50	591km		CMP	101.07	46	iPdiff	25	38.00	-0.7					i	34	14.00	
			eS	34	43.00			NUR	101.09	30	iPdiff	25	38.60	0.3		KYS	141.62	317	ePKP	31	12.10	-4.8X
KMR	93.90	42	iP-	25	07.00	0.7			0.7s	18.70nm				5.7mb		DDR	141.80	318	ePKP	31	11.70	-5.6X
			e	27	15.40	588km					ipP	27	48.00			CHJJ	141.90	319	PKP	31	12.60	-4.7X
			e	31	52.00						ePP	29	56.00			SRY	141.97	318	ePKP	31	12.70	-4.8X
BPI	94.04	117	iPd	25	05.20	-2.5					epPP	31	52.00			OYM	142.10	318	ePKP	31	12.70	-5.1X
BRN	94.07	38	iPd	25	08.20	1.3					eSKS	35	16.00			MTMJ	142.33	320	PKP	31	13.80	-4.4X
			i	27	16.80	589km					eS	36	24.00			AJI	142.42	317	PKP	31	15.00	-3.2X
COP	94.21	34	iPd-	25	08.30	0.8					eSP	37	56.00			KTJ	142.48	317	PKP	31	13.70	-4.6X
	0.9s	145.00nm				6.2mb					ePKKP	41	37.00			MEK	142.87	195	iPKPd	31	15.40	-3.9X
			i	27	17.00	590km					eSS	43	36.00			CN2	142.88	340	iPKPd	31	14.50	-4.2X
			iS	34	49.00		KDZ	101.14	49	iPdiff	25	38.00	-1.0						pPKP	33	31.50	
BRG	94.26	39	iPd	25	08.50	0.7	KEV	101.70	21	iPdiff	25	41.00	0.1						iPP	34	32.50	
	1.8s	167.00nm				6.0mb			0.6s	17.00nm				5.8mb					SKKS	40	23.00	
			epP	27	17.20	589km					ipP	27	50.50			WWW	142.91	251	iPKPd	31	17.00	-2.7X
			eSKS	34	48.00						ePP	29	56.00			IIDJ	142.94	319	PKP	31	17.00	-2.2
			eS	35	28.00						ePPP	32	48.00			TKY	142.95	320	PKP	31	17.00	-2.2
			P'P'	50	17.00						eSKS	35	20.00			HJJ	143.02	314	PKP	31	16.00	-3.3X
PRE	94.28	117	eP	25	07.70	-1.0					eSP	38	04.00			TK04	143.62	317	PKP	31	19.20	-0.9
SLR	94.36	117	iPd	25	07.90	-1.2					ePS	39	16.00			TK03	143.69	317	PKP	31	19.70	-0.5
	1.2s	444.00nm				6.6mb					iPKKP	41	33.00			GIF	143.73	320	PKP	31	19.00	-1.4
PRU	94.48	40	Pd	25	09.70	0.8					esPS	41	48.00			TK02	143.95	317	PKP	31	20.10	-0.5
	2.4s	208.00nm				5.9mb					eSS	43	52.00			HIK	144.14	320	PKPd	31	20.90	-0.2
			pP	27	19.00	593km	MLR	101.72	45	iPdiff	25	42.00	0.3			TSRJ	144.14	320	PKPd	31	20.60	-0.5
			PP	29	06.50		SOD	101.73	23	iPdiff	25	40.80	-0.2			TK01	144.17	317	PKPd	31	20.80	0.0
			S	36	12.00		SUF	101.76	28	iPdiff	25	43.80	2.5X			GUA	144.39	280	ePKPd-	31	20.60	-1.5
			P'P'	50	12.00			0.7s	2.40nm				4.8mb				0.6s	437.00nm				
NB2	94.59	29	P	25	09.20	0.0	VRI	102.27	45	ePdiff	25	44.00	0.0						(pP)	33	36.00	
	1.0s	97.00nm				6.0mb	KJF	102.39	26	iPdiff	25	45.50	1.5			PJG	144.43	280	ePKPd	31	20.50	-1.7
EVA	94.89	118	eP	25	11.00	-0.5		0.7s	18.10nm				5.8mb						(pP)	33	37.00	
			e	27	20.70	595km					ipP	27	54.50			GUMO	144.43	280	ePKP	31	21.50	-0.7
VKA	95.38	42	iPd	25	13.50	0.5					iPP	30	02.50			MZH	144.61	321	PKP	31	21.00	-0.9
	2.6s	524.00nm				6.3mb					ePPP	32	28.00			OWA	144.92	318	PKP	31	22.00	-0.5
			pP	27	22.10	588km					eSKS	35	24.00			POO	145.00	71	iPKPd	31	23.00	-0.1
LCI	95.44	50	P	25	14.50	1.1					eS	36	36.00				0.9s	450.00nm				
IMA	95.56	336	iPd	25	13.00	-0.6					eSP	38	12.00			WKYJ	145.22	319	PKPd	31	23.30	0.2
			e	27	20.00	579kmX					ePKKP	41	36.00			TOTJ	145.24	322	PKP	31	23.00	0.0
HFS	95.64	30	eP	25	14.00	0.2					i	42	05.00			SUM	145.59	320	PKP	31	24.00	0.4
	0.9s	25.00nm				5.4mb					eSS	43	56.00			YONJ	145.92	322	PKP	31	23.50	-0.6
KSP	95.72	40	iPd	25	15.50	1.1	TLB	103.18	46	ePdiff	25	48.00	0.0			WTS	145.97	323	PKP	31	25.00	0.8
	0.8s	170.00nm				6.3mb	KVT	109.19	50	iPKP	30	14.70	-0.7			HMD	146.95	323	PKP	31	27.00	1.3
			i	27	24.60	591km	AVY	113.53	115	ePKPd	30	24.00	-0.5			HIR	147.10	322	PKP	31	26.00	0.0
			e	29	16.50		TAB	117.44	52	ePKP	30	30.00	-1.3			NAU	147.48	192	iPKPd	31	26.90	0.0
			e	31	49.50		KER	118.64	56	ePKP	30	36.00	2.3			MBL	147.65	200	iPKPc	31	26.60	-0.7
BUL	95.86	111	iPd	25	16.10	0.2	WAM	120.93	217	iPKPd	30	38.90	1.1			UWA	147.79	321	PKP	31	31.00	3.8X
	0.8s	26.10nm				5.5mb	CAN	121.44	218	iPKPd	30	38.30	-0.6			KNA	148.04	218	iPKPc	31	27.20	-0.8
			iPP	27	27.00	601km	TOO	121.92	214	iPKPd	30	38.90	-0.8			SHNJ	148.05	323	PKP	31	26.20	-1.3
			iS	34	57.90			0.6s	33.00nm							MTN	148.60	225	iPKPd	31	28.50	-0.4
TTA	96.02	333	ePc	25	14.90	-0.7	YOU	122.51	219	iPKPd	30	40.40	-0.6			HHC	148.68	356	iPKPd	31	29.40	0.9
MAW	96.40	164	eP	25	17.00	-0.3	COO	122.55	224	iPKPd	30	41.10	-0.1						pPKP	33	48.50	
BUD	97.09	43	ePd	25	21.00	0.3		0.7s	250.00nm										PP	35	07.00	
JOZ	97.27	119	eP	25	24.00	2.0	BFD	123.80	212	iPKPd	30	42.80	-0.6			NOB	148.77	321	PKP	31	30.00	1.3
SDN	97.32	325	eP	25	21.00	-0.6	CMS	125.97	219	iPKPd	30	47.10	-0.7			BJI	148.88	349	PKP	31	29.00	0.4
UPP	97.56	31	iP	25	22.00	-0.5	ADE	127.49	211	iPKPd	30	50.50	-0.1				1.5s	262.00nm				
			i	27	32.20	599km		0.6s	97.30nm							BJI	148.88	349	PKP	31	34.00	5.4X
			iS	34	59.00		KHI	128.02	54	iPKPd	30	51.20	-0.6						sPKP	33	47.00	
			i	35	54.00		MHI	128.06	51	iPKPd-	30	51.70	0.0						PP	34	58.00	
			i	37	17.00					e	32	55.00							SKS	40	59.00	
OHR	97.68	50	iP	25	24.50	0.8	SIK	128.25	216	iPKPd	30	51.80	-0.3						(SS)	53	10.00	
			i	25	42.00	62kmX	CTA	132.83	231	ePKP	30	49.00	-12.1X						SSS	59	20.00	
			i	27	34.90		NEM	133.51	323	PKP	30	46.00	-15.7X			BTO	149.01	358	iPKPd	31	29.50	0.5
			i	35	03.60		ALOT	134.10	246	ePKP	31	03.00	-0.6						pPKP	33	48.60	
KRA	97.95	41	iPd	25	25.20	0.6	KUSJ	134.17	323	PKP	30	49.00	-13.9X						PP	35	08.00	
	1.1s	103.00nm				6.1mb	ASAJ	134.73	326	PKP	30	52.00	-12.0X			GBA	149.04	79	PKP	31	29.00	-0.5
	Z 16s	1.00um				5.4MszX	HOOJ	135.43	323	PKP	30	53.00	-12.3X			KOD	149.15	86	iPKPd	31	30.60	0.4

02d 20h

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        1.0s   126.00nm
                    ePP   33 47.00
GTA   149.16   14 iPKP   31 29.60   0.3
                   ipPKP  33 49.00
                    PP    35 11.50
                   SKKS   41 00.00
KUMJ  149.33  322 PKP    31 29.10  -0.4
HYB   149.60   72 iPKPd  31 30.00  -0.4
        0.8s   492.00nm
                    e     33 46.00
NGS   149.77  323 PKP    31 30.90   0.7
KAGJ  150.20  320 PKP    31 30.90   0.0
DMN   151.32   48 iPKPd  31 33.00   0.0
KKN   151.35   47 iPKPd  31 33.00   0.0
        0.8s   340.00nm
PKI   151.56   48 iPKPd  31 33.20  -0.3
        1.0s   250.00nm
TIY   151.72  354 PKPd   31 33.40   0.4
                    e     31 52.00
                   pPKP   33 49.00
                    PP    35 25.50
                   SKKS   41 34.00
                    SS    53 57.00
TIA   152.35  345 PKPd   31 33.90   0.0
                    e     31 53.80
                   pPKP   33 50.50
                   pPKP   34 07.50
                   PKS    35 07.20
                    PP    35 27.60
                   SKKS   41 16.00
LZH   153.16    9 PKPd   31 36.50   1.3
                    e     31 58.00
                   pPKP   33 52.00
                    PP    35 34.00
                   SKKS   41 26.50
LSA   154.00   37 iPKPd  31 37.90   1.0
                    e     32 03.10
                   SKKS   41 27.10
XAN   155.58  360 iPKP   31 38.00  -0.4
                    e     32 07.00
                   pPKP   33 56.50
                    i     34 17.00
                    PP    35 45.50
SSE   155.61  333 PKPc   31 38.00  -0.4
                    e     32 08.00
                    pP    33 54.00
NJ2   155.70  339 iPKPd  31 38.00  -0.5
                    i     32 07.00
                   pPKP   33 56.00
                    PP    35 45.00
AAI   156.64  237 ePKP   31 39.50  -0.8
        0.6s   144.00nm
CD2   158.19   12 PKP    31 42.50   0.8
                    e     32 17.50
                   epP    33 59.00
                   ipP    34 28.00
                   PKS    35 16.00
                    PP    36 00.00
                   SKS    38 04.00
WHN   158.43  347 ePKP   31 40.00  -1.8
                    i     32 19.50
                   pPKP   33 58.00
                    PP    36 00.00
ANP   160.25  324 ePKP   31 46.00   2.8
MKS   161.91  217 ePKPc  31 45.00  -0.9
OZH   162.03  330 PKPd   31 46.00   0.3
                    e     32 36.00
                    PP    36 20.00
TRT   162.48  193 iPKPd  31 47.20   0.8
        0.6s    77.40nm
GYA   163.02    7 PKP    31 47.00   0.2
                    e     32 40.00
                   epP    34 04.00
                   ipP    34 49.00
                    PP    36 24.00
DAV   163.21  263 ePKP   31 47.00  -0.2
KMI   163.43   28 iPKPd-31 48.00   0.6
        4.0s     1.80nm
GZH   165.80  343 iPKPd  31 50.00   0.8
                    e     32 51.00
                    PP    36 39.20
HKC   166.26  339 ePKP   31 50.00   0.5
CHG   166.72   45 iPKPd  31 49.00  -1.0
        0.9s    54.60nm
CHTO  166.72   45 PKP    31 50.10   0.1
OCP   166.94  294 ePKP   32 08.50  18.3X
PPI   167.06  139 ePKPd  31 49.80  -0.6
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        0.6s     3.60nm
BDT   167.77   50 iPKPd 31 49.90  -0.8
        0.9s    91.40nm
PPR   170.18  272 ePKPc 31 53.90   1.6
KGM   170.79  144 ePKPd 31 52.40  -0.2
                    e    33 14.90
IPM   170.88  122 ePKPd 31 52.10  -0.6
        0.9s    72.90nm
                    e    33 15.40
                    e    35 25.00
PCT   171.14   54 iPKPd 31 54.00   1.4
        1.0s    65.60nm
                    e    33 18.00
                    e    35 28.70
SNG   171.60  105 ePKP  31 52.00  -0.9
KKM   171.87  246 ePKPd 31 53.60   0.4
        1.1s   107.00nm
      S.D. = 1.0  on 417 of 463 obs.

   JUN  09, 1983  18h 46m 02.91± 0.30s
   51.441 N ± 1.8km  174.120 W ± 1.0km
   DEPTH =  34.3 ±  2.6 km
   6.2mb (153 obs.)  6.0Msz ( 46 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      Felt (III) on Adak.

AD2     1.27  292 iPd   46 24.60   0.1
AD8     1.64  290 iPd   46 31.03   1.2
ADK     1.66  287 iPd   46 30.30   0.2
AK5     1.77  283 iPd   46 32.22   0.6
AD7     1.91  285 ePd   46 34.49   0.8
AD6     1.97  279 ePP   46 34.92   0.4
AK1     2.21  277 iPc   46 38.88   0.9
NKI     3.57   63 ePP   46 57.30   0.1
SMY     7.37  285 ePP   47 49.40  -1.4
                    e    47 54.00
SDN     9.03   59 P     48 12.60  -1.2
KDC    14.00   55 ePP   49 17.30  -3.5X
SVW    14.06   39 P     49 23.60   1.9
TTA    15.05   33 P     49 35.90   1.3
ILT    16.66  354 iPc   49 57.00   2.0
        1.4s  1530.00nm          5.9mb
      Z  18s   122.00um
      N  18s    93.00um
      E  18s    42.00um
PET    16.72  286 iPc   49 56.00   0.1
      Z  18s    23.30um
      N  14s    14.00um
      E  18s    25.30um
                   eS    52 56.00
PMR    17.01    44 e(P)  49 56.60  -2.8X
PME    17.07    44 eP    49 58.20  -2.0
        1.0s    42.50nm          4.5mb X
IMA    17.95    28 eP    50 12.00   0.7
SKR    18.68  279 iPc   50 18.00  -2.2
        2.0s  3910.00nm          6.3mb
      Z  20s    45.50um
      N  20s    26.00um
      E  20s    45.50um
COL    19.15    35 eP    50 22.00  -3.6X
        0.9s   276.00nm          5.5mb
                   eS    54 05.00
FBA    19.15    35 eP    50 22.00  -3.6X
PCA    20.71    52 eP    50 41.40  -1.1
SEY    21.19  316 iPc   50 46.90  -0.3
        1.6s   800.00nm          5.9mb
      Z  18s    68.60um          6.1Msz
      N  18s    31.80um
      E  18s    42.40um
                   ePP   51 06.90
                   eS    54 30.90
                   iPcP  54 54.90
MGD    21.32  308 iPc   50 48.00  -0.6
        2.4s   930.00nm          5.8mb
      Z  19s    57.00um          6.0Msz
      N  19s    50.00um
      E  19s    23.00um
                   ePP   51 09.00
                   ePPP  51 23.00
                   ePcP  54 48.00
SIT    23.11    61 ePc   51 07.30   1.0
INK    25.75    34 ePc   51 30.40  -1.1
        1.1s   569.00nm          6.1mb
KUR    25.80  271 iPc   51 31.70  -0.5
        1.0s  1700.00nm          6.6mb
                   iPP   52 07.00
YSS    28.22  278 iPc   51 54.70   0.4
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        1.3s   760.00nm          6.2mb
      Z  20s    28.00um          5.9Msz
      N  20s    26.70um
      E  19s    25.50um
                   esP   52 06.30
                   ePP   52 44.00
                   eS    56 38.00
KUSJ   28.83  270 P     51 57.50  -2.3
HOOJ   30.10  269 P     52 10.00  -1.1
MRRJ   31.46  271 P     52 21.00  -2.1
YAK    31.56  312 iPc   52 20.70  -3.1X
        1.0s   360.00nm          6.2mb
                   ePcP  55 14.00
                   eS    57 24.70
TIK    32.04  330 iPc   52 26.40  -1.5
        1.1s    70.00nm          5.5mb
                   epP   52 36.00  34kmX
                   esP   52 40.00
                   ePP   53 28.00
                   ePPP  53 45.00
                   ePcP  55 16.00
                   eS    57 35.00
PGC    32.13    75 eP    52 31.50   2.6
OPA    32.24  151 eP    52 30.50   0.4
MBC    32.47    21 iPc   52 31.00  -0.6
        1.0s   114.00nm          5.7mb
OFUJ   32.98  266 P     52 36.00  -0.4
GMW    33.01    76 eP    52 37.70   1.1
YKA    33.05    47 eP    52 36.80   0.0
RSNT   33.06    47 ePd   52 35.70  -1.2
                   ePcP  55 19.20
                   epPcP 55 33.00
YKC    33.11    47 ePc   52 36.10  -1.3
        0.9s    48.00nm          5.4mb
                   pP    53 52.00 406kmX
HJH    33.76  267 P     52 43.00  -0.2
LON    33.96    77 eP    52 46.30   1.3
COR    34.09    81 iPc   52 47.00   1.0
PNT    34.15    72 eP    52 46.00  -0.5
        1.0s   564.00nm          6.5mb
                   pP    53 25.00 185kmX
YAMJ   34.55  266 P     52 50.00   0.0
SHR    35.08  264 P     52 55.00   0.4
MIT    35.40  263 P     52 57.00  -0.2
CHO    35.59  262 P     52 59.00   0.1
FHC    35.69    87 eP    53 01.70   1.9
                    e    53 15.00
KAKJ   35.69  263 Pc    52 59.60  -0.2
TSK    35.73  263 iPc   52 59.40  -0.7
AIK    35.76  267 P     53 01.00   0.7
NIIJ   35.77  265 Pc    53 00.40   0.0
NEW    36.10    72 eP    53 03.00  -0.1
                    e    53 17.00
EDM    36.20    63 iPc   53 04.80   0.8
        1.3s  1440.00nm          6.7mb
MAE    36.26  264 P     53 05.00   0.5
KYS    36.36  262 eP    53 07.80   2.4
PNO    36.37    77 eP    53 05.80   0.4
DDR    36.43  263 iPc   53 06.00  -0.1
LGBM   36.50    85 eP    53 08.60   1.7
                    e    53 22.70
CHJJ   36.53  264 Pc    53 06.80   0.0
SRY    36.63  263 iPc   53 07.90   0.2
MAT    36.70  265 iPc+  53 08.60   0.3
        1.0s   295.00nm          6.1mb
      Z  20s    15.30um          5.8Msz
                   eS    58 52.00
WDC    36.72    87 eP    53 09.60   1.2
                    e    53 22.90
                    e    59 14.30
OYM    36.78  263 iPc   53 09.10   0.1
VLA    36.81  279 iP    53 09.00  -0.1
      Z  18s    22.30um          6.0Msz
      N  18s    16.40um
      E  18s     6.70um
                   ePcP  55 31.00
                   iSSS  01 30.00
MTMJ   36.93  265 Pc    53 10.30   0.0
RXF    37.01    70 iPc   53 11.30   0.5
LHD    37.03    71 iPc   53 12.70   1.7
LDM    37.08    71 iP-   53 12.40   1.0
AJI    37.11  262 P     53 12.00   0.3
KTJ    37.18  262 Pc    53 12.40   0.1
CLX    37.30    71 iPc   53 14.20   0.7
MIN    37.43    86 eP    53 15.20   0.6
                    e    53 28.10
MDJ    37.44  282 iPc   53 13.50  -0.9
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			pP	53 25.00	41kmX
			PP	54 42.00	
			PPP	55 05.00	
			S	59 00.00	
			sS	59 21.00	
			SS	01 46.00	
TKY	37.54	265	P	53 17.00	1.6
IIDJ	37.56	264	Pc	53 16.20	0.6
SHZ	37.59	263	P	53 16.00	0.3
ORV	37.96	87	iPc	53 19.00	0.2
TK04	38.30	263	P	53 23.40	1.8
TK03	38.39	262	P	53 24.30	2.0
BKS	38.51	90	ePd	53 24.40	1.0
	1.1s	250.00nm			5.9mb
			ePP	55 07.00	
			ePPP	55 30.00	
			eS	59 21.00	
TUP	38.57	301	iPc	53 21.80	-1.9
	1.3s	290.00nm			5.9mb
TK02	38.67	262	P	53 25.80	1.3
SES	38.68	66	iPc	53 24.60	-0.2
	1.3s	580.00nm			6.2mb
TSRJ	38.73	266	P	53 25.00	-0.3
MHC	39.21	90	eP	53 30.00	0.5
ARN	39.27	90	iPc	53 31.00	1.1
			i	53 46.30	
OWA	39.56	264	P	53 35.00	2.8
JAS	39.59	88	eP	53 34.00	1.5
TOTJ	39.84	267	P	53 35.00	0.5
LRM	40.07	73	ePc	53 36.70	0.0
BMN	40.12	83	ePd	53 37.90	0.9
			i	53 51.70	
BOD	40.17	308	eP	53 36.00	-1.0
	1.0s	380.00nm			6.1mb
SUM	40.18	265	P	53 38.00	0.7
CN2	40.40	284	iPc	53 37.70	-1.3
			pP	53 50.00	45kmX
			PP	55 11.00	
PRI	40.57	91	eP	53 41.80	1.1
PHAM	40.93	91	eP	53 45.00	1.5
TKSJ	40.95	265	P	53 44.40	0.8
SHK	41.44	267	iPc	53 47.90	0.2
EUR	41.45	83	iP	53 49.20	1.2
HMD	41.59	268	P	53 49.00	0.2
FFC	41.70	56	iPc	53 49.80	0.2
	0.9s	200.00nm			5.8mb
IMW	42.01	75	eP	53 53.50	0.9
ALE	42.04	11	eP	53 51.50	-0.6
	1.0s	52.00nm			5.2mb X
			pP	56 00.00	
WKTM	42.18	89	eP	53 54.60	0.8
VPEM	42.47	89	eP	53 53.60	-2.7
BEI	42.50	77	eP	53 57.30	0.8
SHNJ	42.69	268	Pc	53 58.50	0.6
MOUT	42.98	78	eP	54 00.50	-0.1
DUG	42.98	80	ePc	54 00.90	0.5
PAS	43.41	91	iPd	54 05.00	1.2
			ePP	56 11.00	
			ePPP	56 20.00	
			eScP	59 41.00	
			iS	00 54.00	
			eScS	03 59.00	
BDW	43.47	75	iPc	54 05.00	0.5
	1.2s	217.00nm			5.8mb
FCC	43.77	48	iPc	54 05.60	-0.8
			pP	55 19.40	371kmX
BKU	43.79	82	iPc	54 07.90	0.8
SDW	43.80	90	ePc	54 07.20	0.1
MSU	44.39	82	ePd	54 12.70	0.7
KAGJ	44.80	265	P	54 14.90	-0.1
KHE	45.06	349	iPc	54 17.00	0.4
			iPcP	55 56.00	
			iPP	56 06.00	
			ePPP	56 38.00	
			eScS	04 10.00	
MMU	45.13	81	ePc	54 18.70	0.7
NRI	45.62	331	iPc	54 19.60	-1.4
	1.4s	150.00nm			5.7mb
Z	20s	10.00um			5.8Msz
N	20s	5.00um			
E	20s	4.50um			
			esP	54 32.00	
			iPcP	55 58.00	
			ePP	56 03.00	
			ePPP	56 49.00	
RSSD	46.00	70	ePc	54 24.00	-0.7
GLA	46.23	90	iPd	54 26.50	0.1
IRK	47.80	305	ePc	54 36.90	-1.7
	1.3s	490.00nm			6.4mb
Z	17s	8.52um			5.8MszX
N	16s	4.91um			
E	18s	11.70um			
			esP	54 50.00	
			ePcP	56 07.00	
			ePP	56 30.00	
			eScS	04 28.00	
			eSSS	06 00.00	
GOL	47.84	76	iPc	54 39.50	0.2
	1.1s	125.00nm			5.8mb
Z	18s	2.97um			5.3Msz
GLD	47.90	76	iPc	54 40.80	1.1
	1.2s	202.00nm			6.0mb
Z	20s	11.00um			5.8Msz
RSON	47.99	57	iPc	54 39.80	-0.2
			ipP	54 47.00	24kmX
BJI	48.21	285	iPc	54 41.50	-0.3
	1.6s	707.00nm			6.4mb
Z	20s	21.00um			6.1Msz
N	20s	20.70um			
			eS	01 41.00	
			sS	01 52.00	
			ScS	04 30.00	
ZAK	49.40	303	iPc	54 50.70	-0.1
	1.2s	920.00nm			6.7mb
Z	17s	28.90um			6.3MszX
N	18s	12.00um			
E	18s	13.30um			
			esP	55 03.00	
			ePcP	56 12.50	
			eScS	04 40.50	
MOY	49.84	306	iPc	54 53.40	-0.7
	1.5s	700.00nm			6.5mb
TIA	50.05	280	Pc	54 55.60	-0.4
			pP	55 09.50	52kmX
			sP	55 19.20	
			PP	56 52.70	
			S	02 07.20	
			PS	02 25.00	
			sS	02 39.20	
PJG	50.11	236	eP	54 54.20	-2.5
GUMO	50.11	236	eP	54 54.00	-2.7
Z	20s	2.30um			5.2Msz
GUA	50.13	236	eP	54 53.20	-3.6X
	0.6s	96.00nm			6.0mb
Z	20s	3.97um			5.4Msz
			eS	02 02.00	
ALQ	50.20	82	ePc	54 56.90	-0.6
	1.0s	116.00nm			5.9mb
Z	20s	7.54um			5.7Msz
			e	55 12.00	
HHC	50.47	289	iPc	54 59.30	0.0
			PP	56 55.00	
			S	02 15.70	
SSE	50.93	273	Pc+	55 02.90	0.2
	1.2s	541.00nm			6.4mb
Z	20s	4.10um			5.4Msz
E	17s	4.40um			
			pP	55 16.00	48kmX
			eS	02 21.00	
			i	02 35.00	
DAG	51.10	7	iPc	55 01.50	-2.0
	0.7s	23.30nm			5.3mb
			i	56 17.00	
			i	00 12.00	
FRB	51.41	33	ePc	55 04.50	-1.4
BTO	51.54	289	iPc	55 07.50	0.1
			pP	55 20.00	45kmX
			ePP	57 08.00	
			S	02 29.00	
NJ2	51.73	275	iPc	55 07.90	-0.9
			sP	55 23.00	
			S	02 27.00	
LHC	51.75	58	iPc	55 08.70	-0.1
	1.0s	409.00nm			6.3mb
TIY	51.94	285	iPc	55 10.90	0.4
			pP	55 24.50	50kmX
			sP	55 28.00	
			PP	57 15.00	
			S	02 31.00	
			sS	02 54.00	
GDH	52.03	23	iPd	55 10.10	-0.5
	1.1s	147.00nm			5.9mb
			i	55 51.00	
			i	56 23.00	
UER	53.34	309	iPd	55 19.40	-1.1
	2.0s	300.00nm			5.9mb
ACO	53.52	75	ePc	55 20.80	-1.4
	1.6s	952.00nm			6.5mb
LUB	53.94	80	eP	55 25.00	-0.3
			epP	55 38.00	47kmX
ANP	54.87	267	eP	55 32.00	-0.3
OCO	55.32	75	eP	55 34.80	-0.5
			e	55 49.40	
WHN	55.57	277	iPc	55 35.80	-1.3
			S	03 22.50	
			sS	03 39.50	
SIO	55.87	74	iPc	55 38.10	-1.2
ELT	55.90	314	iPc	55 36.00	-3.2X
	2.3s	440.00nm			6.1mb
			eScS	05 23.00	
TUL	56.07	73	iPc+	55 39.10	-1.6
	1.6s	976.00nm			6.6mb
Z	20s	6.47um			5.7Msz
N	21s	4.41um			
E	21s	5.10um			
			e	55 49.70	
			e	55 53.80	
			iS	03 27.50	
NVS	56.09	317	iPc	55 38.70	-1.8
	3.0s	500.00nm			6.0mb
Z	20s	31.00um			6.4Msz
			iSP	03 34.00	
RLO	56.35	73	iPc	55 41.00	-1.8
XAN	56.51	284	iPc	55 42.80	-1.2
			pP	55 56.00	47kmX
			PcP	57 25.00	
			PP	57 48.50	
			PPP	58 05.50	
			S	03 32.50	
			ScS	05 28.00	
			SS	07 31.00	
QZH	56.88	269	iPc	55 46.00	-0.6
			sP	56 02.00	
			S	03 38.00	
ACM	57.29	61	eP	55 48.10	-1.2
JCT	57.34	81	iP	55 48.00	-1.9
	1.0s	125.00nm			5.9mb
Z	20s	8.16um			5.8Msz
			i	56 02.10	
SLM	57.51	67	eP	55 49.28	-1.6
BHO	57.66	74	e(P)	55 51.40	-0.6
FVM	57.84	68	ePc	55 51.20	-2.0
SCH	58.13	41	ePc	55 53.50	-1.6
	1.0s	82.00nm			5.8mb
KEV	58.14	352	iPc+	55 53.00	-1.9
	1.0s	200.00nm			6.1mb
Z	16s	9.10um			6.0MszX
			i	56 44.00	
			ePP	58 04.00	
			eS	04 08.00	
			eSS	07 52.00	
LZH	58.16	289	iPc	55 55.50	-0.2
			pP	56 08.50	46kmX
			S	03 58.00	
GTA	58.24	295	iPc	55 54.60	-1.6
			pP	56 06.00	39kmX
			PPP	59 33.50	
			S	03 58.50	
			ScS	05 39.30	
IN2	58.60	64	iPc	55 57.40	-1.1
POW	58.64	70	ePc	55 55.79	-3.1X
RMB	58.67	69	ePc	55 56.58	-2.5
IN1	58.69	63	iPc	55 57.40	-1.7
AAM	58.72	60	ePc	55 58.70	-0.7
BPIL	58.75	67	ePc	55 57.73	-1.9
OLY	58.92	71	ePc	55 58.10	-2.7
ELC	59.01	68	ePc	55 59.19	-2.2
CSIL	59.03	67	ePc	55 59.29	-2.2
UTO	59.20	61	iPc	56 03.00	0.3
WDIN	59.33	66	ePc	56 01.68	-1.9
AN11	59.35	62	ePc	56 02.00	-1.7
ELF	59.37	58	P	56 03.70	-0.1
AN12	59.38	62	ePc	56 02.60	-1.3
DLA	59.46	59	P	56 04.80	0.3
APA	59.55	348	iPc	56 03.00	-1.8
	1.5s	250.00nm			6.1mb
			ePP	58 18.00	
			ePS	04 28.00	
IN3	59.62	64	eP	56 04.10	-1.5
AN1	59.71	62	ePc	56 05.10	-1.1
NKT	59.81	69	eP	56 05.23	-1.7

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IN4     59.90  63 iPc    56 05.70  -1.8
SOD     60.48 351 iPc    56 09.60  -1.5
                  i      56 54.00
                  eP'P'  25 29.00
KIR     60.54 354 iP     56 10.00  -1.6
SEM     60.56 315 iPc    56 09.80  -2.1
                  iPcP   56 56.00
                  eS     04 10.60
                  eScS   05 58.20
OTT     60.73  53 iPc    56 11.60  -1.5
        1.0s  573.00nm          6.7mb
                  pP     56 24.50  46kmX
DHN     61.27  57 ePc    56 16.50  -0.3
PWLA    61.29  69 eP     56 15.50  -1.5
GZH     61.51 272 Pc     56 18.70   0.1
                  S      04 41.00
                  sS     04 55.50
HKC     61.56 271 iP     56 19.00   0.0
                  iS     04 50.00
PTN     61.68  53 iPc    56 18.70  -0.8
MNT     61.69  52 iPc    56 18.00  -1.6
        1.0s  340.00nm          6.4mb
                  pP     56 31.50  48kmX
WMQ     61.73 306 iPc    56 19.00  -1.0
                  pP     56 31.00  41kmX
                  PcS    01 04.00
                  S      04 42.00
                  ScS    05 09.00
                  SS     08 58.00
AKU     61.76  11 iP     56 19.60  -0.2
        1.7s  154.00nm          5.9mb
                  i      25 43.30
CD2     61.81 285 iPc    56 20.00  -0.7
                  pP     56 33.00  46kmX
                  sP     04 42.50
                  sS     04 59.00
                  eScS   06 09.00
RSNY    61.92  53 iPc    56 20.30  -0.9
RSCP    62.29  67 iPd    56 22.70  -1.1
INY     62.43  56 P      56 24.80   0.2
APH     62.44  54 iPd    56 24.20  -0.5
CNP     62.47 255 ePd    56 26.60   1.5
DVT     62.79  51 eP     56 24.10  -2.8
SVE     63.08 330 iPc    56 28.00  -0.7
        2.8s  570.00nm          6.2mb
      Z  18s   23.50um          6.4Msz
      N  18s   10.50um
      E  18s   13.00um
                  ePcP   57 05.50
                  ePPP   00 21.00
                  eS     04 57.00
                  ePS    05 15.00
GYA     63.22 279 Pc     56 29.50  -0.6
                  pP     56 42.00  43kmX
                  S      05 00.00
                  PS     05 28.00
                  ScS    06 44.00
CBM     63.27  48 iPc    56 29.20  -0.9
PLP     63.34 254 iPc    56 30.00  -0.8
KJF     63.45 350 iPc+   56 30.00  -1.0
        1.0s  270.00nm          6.3mb
      Z  16s    8.00um          6.0MszX
                  i      56 44.00
                  i      57 07.00
                  ePP    58 52.00
                  ePPP   00 36.00
                  eS     05 00.00
                  eSS    09 20.00
                  eP'P'  25 30.00
BNH     63.51  51 iPc    56 31.10  -0.6
NAV     63.78  63 ePc    56 33.20  -0.4
ARU     64.06 331 iPc    56 33.40  -1.7
        2.0s  400.00nm          6.2mb
      Z  20s   15.50um          6.2Msz
      N  20s    7.00um
      E  20s    8.50um
                  isP    56 48.00
                  iPcP   57 09.00
                  ePPP   00 26.50
                  eS     05 08.00
                  eSP    05 23.00
                  eScS   06 20.00
BLA     64.06  62 iP+    56 34.80  -0.7
        1.2s  211.00nm          6.1mb
      Z  20s   14.20um          6.2Msz
                  iS     05 11.20
                  iPPS   05 30.00
MIM     64.09  49 iPc    56 34.90  -0.6
GPD     64.51  56 ePd    56 38.20   0.0
CVL     64.58  61 ePd    56 39.00   0.2
HNR     64.64 209 e(P)   56 56.00  16.8X
NA12    64.90  60 ePd    56 40.50  -0.3
SUF     65.06 350 iP     56 40.20  -1.3
        0.8s  202.00nm          6.3mb
WES     65.10  53 eP     56 42.50   0.5
MD2     65.17  54 eP     56 43.00   0.5
EMM     65.20  49 ePc    56 42.20  -0.4
CGP     65.65 252 iPc    56 43.20  -2.6
JAY     66.00 231 ePd    56 47.50  -0.6
DAV     66.22 250 ePc+   56 48.00  -1.5
        1.5s  622.00nm          6.5mb
                  eS     05 36.00
KMI     66.61 281 iPc+   56 51.50  -0.7
        4.0s    3.20nm          3.8mb X
      N  16s    4.50um
                  sP     57 06.00
                  PcP    57 22.00
                  PP     59 20.00
                  iS     05 43.00
                  sS     05 56.00
                  SS     10 06.00
LAT     66.78 223 eP     57 04.00  11.0X
TLG     67.20 311 iPc    56 55.00  -0.5
        2.1s  280.00nm          6.0mb
      Z  18s    7.00um          5.9Msz
                  ePPP   01 02.00
                  eSP    06 08.00
PRZ     67.31 310 iPd    56 56.00  -0.4
        3.2s 2300.00nm          6.7mb X
      Z  17s    9.30um          6.1MszX
      N  17s   13.20um
      E  17s    4.40um
NUR     67.39 350 iPc+   56 55.00  -1.3
        1.0s  368.00nm          6.4mb
      Z  20s   12.10um          6.1Msz
                  i      57 08.00
                  i      57 22.50
                  ePP    59 24.00
                  eS     05 20.00
                  eSS    10 20.00
                  eP'P'  25 24.00
AAA     67.40 312 iPc    56 56.70  -0.1
PUL     67.40 347 iPc    56 55.00  -1.4
        1.4s  470.00nm          6.4mb
      Z  20s   10.00um          6.0Msz
      N  20s    9.10um
                  isP    57 08.00
                  iPcP   57 22.00
                  ePP    59 25.00
                  ePPP   01 10.00
                  eS     05 46.00
                  eSP    06 02.00
                  ePS    06 12.00
                  eScS   06 44.00
                  eSS    10 11.00
NB2     67.79 357 P      56 57.60  -1.3
        1.1s  277.00nm          6.3mb
TZZ     68.15 229 eP     57 01.00  -0.7
HFS     68.60 356 iP     57 02.10  -1.8
        0.5s   99.00nm          6.1mb
UPP     68.65 354 iPc    57 03.00  -1.1
                  i      57 16.20
                  i      25 15.20
ALOT    68.69 218 eP     57 04.00  -0.9
FRU     68.82 313 iPc    57 05.40  -0.2
        2.0s 1260.00nm          6.6mb
      Z  18s   14.00um          6.2Msz
      E  18s   11.00um
                  epP    57 16.00  34kmX
                  ePcP   57 34.00
                  eS     06 08.00
PMG     69.20 221 eP     57 03.00  -5.1X
NRN     69.26 311 iPd    57 03.40  -0.3
STJ     69.32  38 ePc    57 08.50   0.1
        1.3s  828.00nm          6.6mb
MOS     69.99 342 iPc    57 11.00  -1.4
        2.0s  580.00nm          6.3mb
                  isP    57 24.00
                  ePcP   57 34.00
                  eS     06 07.00
PMO     70.00 153 iP     57 12.70  -0.2
        1.5s  290.00nm          6.1mb
TPT     70.07 153 iP     57 12.80  -0.5
        1.5s  350.00nm          6.2mb
LSA     70.15 293 iPc    57 15.50   1.1
VAH     70.30 153 iP     57 14.20  -0.5
        1.5s   36.00nm          5.2mb X
RUV     70.33 153 iP     57 14.40  -0.5
        1.5s  390.00nm          6.2mb
OBN     70.73 342 iPc    57 16.10  -0.8
        1.2s  360.00nm          6.3mb
                  iPcP   57 37.00
                  ePPP   01 40.00
                  eS     06 28.69
KSH     70.81 310 eP     57 19.00   1.1
                  eS     06 31.00
MNI     71.19 248 ePd    57 20.00  -0.3
        1.5s  322.00nm          6.1mb
ANR     71.49 313 iPc    57 21.90   0.1
        1.3s 1500.00nm          6.9mb
      Z  16s    8.00um          6.1MszX
      N  16s   13.00um
      E  16s    7.00um
                  iPcP   57 36.50
                  iS     06 40.70
                  iPPS   07 24.20
AFR     71.91 156 iP     57 23.80  -0.6
        1.5s  280.00nm          6.0mb
TAS     72.42 315 iPc    57 26.60  -0.7
        2.0s 1000.00nm          6.5mb
      Z  20s   15.00um          6.3Msz
      N  17s   12.00um
      E  15s    3.60um
                  ePPP   00 04.60
                  ePPP   01 46.60
                  eS     06 46.10
                  eSS    11 26.60
MUD     72.43 358 iPc    57 28.00   1.0
        0.9s  210.00nm          6.1mb
SHL     72.82 289 iP     57 30.30   0.2
                  iS     06 52.60
COP     73.11 356 iPc+   57 30.90  -0.1
        0.8s  358.00nm          6.4mb
      Z  18s    6.19um          5.9Msz
                  i      57 44.00
                  eS     07 27.00
EKA     73.33   5 Pd     57 32.80   0.4
        1.2s  146.00nm          5.8mb
AAI     73.50 242 ePd    57 33.50  -0.4
        0.8s  104.00nm          5.9mb
CHG     73.64 280 iPc+   57 34.00  -0.7
        1.0s  130.00nm          5.9mb
      Z  20s    4.96um          5.8Msz
      N  18s    5.33um
      E  20s    5.67um
                  eS     07 22.00
CHTO    73.64 280 P      57 34.00  -0.7
GAR     73.84 313 iPc    57 35.40  -0.4
        1.5s 1150.00nm          6.6mb
      Z  28s    8.00um          5.9MszX
      E  18s    5.00um
                  eS     07 03.00
DMU     74.49   8 iPc    57 38.70  -0.4
        1.1s  270.00nm          6.2mb
KHO     74.50 311 iPd    57 40.40   0.7
        9.0s 3600.00nm          6.4mb X
      Z  18s    8.00um          6.1Msz
      N  18s    4.20um
      E  18s    2.50um
                  eS     07 13.00
SAM     74.78 316 iPc    57 41.00  -0.1
        3.0s 2500.00nm          6.7mb
      Z  18s   11.80um          6.2Msz
      N  17s    7.00um
                  iPcP   57 54.50
                  ePPP   02 14.00
                  eS     07 14.00
                  iSP    07 48.00
BDT     74.79 279 eP     57 39.00  -2.4
        1.0s  311.00nm          6.3mb
DSH     74.90 314 iPc    57 42.30   0.5
      Z  18s   12.50um          6.3Msz
                  eS     07 17.20
KUL     74.99 313 iPc    57 42.40   0.1
        2.9s 2600.00nm          6.7mb
      N  17s    2.00um
      E  15s   10.50um
                  eS     07 18.10
DCN     75.01   8 iPc    57 41.90  -0.2
        1.2s  280.00nm          6.1mb
DDK     75.04   8 iPc    57 42.20  -0.1
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        1.2s   220.00nm          6.0mb
PKI     75.04 295 iPc   57 43.30   0.1
DLE     75.12   8 iPc   57 42.60  -0.2
        1.0s   145.00nm          5.9mb
DMN     75.19 296 iPc   57 44.40   0.5
PCT     75.24 275 eP    57 45.50   1.5
        1.0s    89.70nm          5.7mb
NOU     75.39 199 iPd   57 47.50   2.9
HAM     75.41 358 iPc   57 45.00   0.6
ETA     75.74   8 iPc   57 46.40   0.1
        1.2s   430.00nm          6.3mb
ECB     76.02   5 iPc   57 47.50  -0.3
VAL     76.10  10 iP    57 48.20  -0.1
                iS      07 28.00
WIT     76.12 360 iPc   57 49.90   1.5
ECP     76.24   8 iPc   57 49.00  -0.1
        1.3s   460.00nm          6.3mb
BRL     76.27 355 iPc   57 50.00   0.8
BRN     76.33 355 iPc   57 50.20   0.6
DBN     76.83   0 iP+   57 52.50   0.1
      Z 19s      3.60um          5.7Msz
                ePPP    02 37.00
                eS      08 00.00
WTS     76.94 359 iPc   57 53.30   0.3
        1.0s   317.00nm          6.3mb
CLL     77.45 355 iPc   57 55.70  -0.1
        1.5s   660.00nm          6.4mb
                i       58 08.40
                eS      07 42.00
KSP     77.71 353 iPc   57 56.80  -0.5
BRG     77.83 355 iPc+  57 58.00   0.0
        1.2s   505.00nm          6.4mb
      Z 19s      4.50um          5.8Msz
      N 19s      5.50um
      E 19s      9.00um
                i       58 11.20
                eS      07 48.00
LVV     77.94 348 iPc   57 58.40  -0.2
      Z 19s      9.80um          6.2Msz
      E 19s      5.30um
                iPcP    58 11.50
                ePP     01 00.00
                ePPP    02 48.00
                iScS    08 10.00
                eSPP    08 46.00
UCC     78.13   1 Pc-   57 59.70   0.2
                e       08 10.00
ENN     78.17 360 iPc   58 00.30   0.5
        1.0s   452.00nm          6.4mb
MOX     78.17 356 iPc   58 00.00   0.1
        2.2s   750.00nm          6.3mb
      Z 16s      3.80um          5.8MszX
      N 17s      3.40um
      E 18s      1.80um
                i       58 13.50
                eS      07 52.00
                eSS     13 15.00
KRA     78.18 351 iPc   57 59.30  -0.5
        1.0s   102.00nm          5.8mb
                e       58 09.70
                i       58 15.30
                e       08 48.00
HOF     78.50 356 iPc   58 01.90   0.2
        1.3s    48.00nm          5.3mb
      Z 17s      2.80um          5.7MszX
NDI     78.67 302 iPc   58 02.50  -0.5
        1.0s   280.00nm          6.2mb
      Z 20s      7.45um          6.0Msz
      N 20s      6.03um
      E 20s      3.19um
                iS      08 11.50
PRU     78.68 354 iPc   58 02.70   0.1
        1.2s   248.00nm          6.1mb
      Z 19s      6.40um          6.0Msz
      N 19s      4.60um
      E 19s      1.00um
                e       58 16.50
                PP      00 49.50
                e       01 26.40
                eS      07 58.00
TNS     78.69 358 ePc   58 03.00   0.2
DOU     78.84   1 Pc+   58 03.50   0.0
        1.2s  1900.00nm          7.0mb
                S       08 03.00
SPC     79.00 350 iPc   58 04.50  -0.2
GRF     79.14 356 iPc   58 06.10   0.9
        1.1s   990.00nm          6.7mb
      Z 18s      3.60um          5.8Msz
                eS      08 02.00
                eSKS    08 18.00
GRFO    79.14 356 P     58 06.00   0.8
CTA     79.23 218 iPc   58 05.10  -0.9
        1.4s    60.50nm          5.4mb
                i       58 22.20
                iS      19 08.00
                i       19 11.00
MAK     79.24 330 iPc   58 06.60   0.8
        3.0s  3000.00nm          6.8mb
                eScS    08 25.00
WLF     79.27 360 P+    58 08.00   2.2
                S       08 10.00
                e       08 26.00
UZH     79.32 349 iPc   58 07.00   0.9
        1.2s   200.00nm          6.0mb
                iPcP    58 14.00
                eScS    08 20.00
GRO     79.47 332 iPc   58 07.00   0.0
        2.0s   660.00nm          6.3mb
                iS      08 11.00
KHC     79.59 355 iPc   58 08.20   0.5
      Z 18s      4.40um          5.8Msz
      N 18s      4.40um
      E 18s      4.10um
                e       58 21.80
                e       58 54.00
                S       08 10.00
PYA     79.60 334 iPc   58 08.00   0.2
        1.5s   450.00nm          6.2mb
      Z 22s      9.60um          6.1Msz
                iPP     01 16.00
                iScS    08 22.00
                iPPS    09 12.00
                eSSS    16 36.00
WET     79.62 355 iPc   58 08.10   0.3
        1.2s   261.00nm          6.1mb
      Z 19s      3.50um          5.7Msz
MTN     79.63 234 iPd   58 08.00  -0.2
JOS     79.66 350 iPc   58 08.00   0.0
        0.8s    80.00nm          5.8mb
MKS     79.69 248 ePd   58 09.50   0.9
ASH     79.85 320 iPd   58 10.00   0.8
      N 16s      9.80um
      E 16s      9.80um
                ePcP    58 14.00
                esP     58 24.00
                eSKS    08 20.00
GWF     79.95 359 iPc   58 10.30   0.7
KIS     79.95 344 iPc   58 09.00  -0.5
        3.0s  2200.00nm          6.6mb
                iPcP    58 24.00
                iPP     01 10.00
                iPPP    02 59.00
                eSKS    08 19.00
                iSP     08 46.00
VAN     79.95 321 iPc   58 09.80   0.1
        1.5s   420.00nm          6.2mb
      Z 18s     14.00um          6.3Msz
                iPcP    58 19.80
                eScS    08 26.00
IAS     79.99 345 eP    58 10.00   0.2
FLN     80.03   4 iPc   58 10.20   0.3
        1.1s   323.00nm          6.2mb
STU     80.13 358 iPc+  58 11.00   0.5
        1.0s   360.00nm          6.3mb
      Z 20s      3.55um          5.7Msz
LDF     80.21   4 iPc   58 11.00   0.1
        1.1s   348.00nm          6.3mb
BUH     80.24 358 iPc   58 11.70   0.5
VKA     80.27 353 iPc   58 11.60   0.3
        3.0s   873.00nm          6.2mb
      Z 18s      3.20um          5.7Msz
ZST     80.28 352 iP    58 11.20  -0.1
ANN     80.28 338 iPd   58 11.00  -0.3
        9.0s  1800.00nm          6.1mb X
                iScS    08 31.00
PST     80.29 350 iPc   58 11.30  -0.2
GRF     80.38   5 iPc   58 12.20   0.4
        1.1s   386.00nm          6.3mb
CDF     80.52 359 iPc   58 13.20   0.5
SRO     80.55 352 iPc   58 13.00   0.3
      N 20s      4.60um
      E 20s      3.30um
                e(S)    08 49.50
KMR     80.63 354 iP+   58 13.70   0.5
                e       08 30.00
FUR     80.67 356 iPc   58 13.90   0.5
        1.2s   500.00nm          6.4mb
ECH     80.72 359 iPc   58 14.20   0.6
LPF     80.73   5 iPc   58 14.20   0.5
        1.1s   405.00nm          6.3mb
MHI     80.81 319 iPc+  58 15.10   0.7
        1.0s   204.00nm          6.1mb
                eS      08 33.00
BUD     80.81 351 iPc   58 14.40   0.3
        1.4s   320.00nm          6.1mb
BAK     80.82 327 iPd   58 17.00   2.8
        5.0s  ********nm          7.8mb X
SOC     80.91 336 iPc   58 15.00   0.3
        1.4s   200.00nm          5.9mb
                isP     58 29.00
                ePP     01 14.00
HAU     80.93 360 iPc   58 15.50   0.7
        1.0s   469.00nm          6.4mb
SIM     80.93 340 iPc   58 15.00   0.2
                eS      08 22.00
SHE     81.02 328 iPd   58 16.00   0.8
BHG     81.04 355 iPc   58 16.10   0.8
        1.4s   267.00nm          6.0mb
CJR     81.04 348 eP    58 16.90   1.5
BAF     81.10 359 iPc   58 16.20   0.5
BSF     81.10 359 iPc   58 16.30   0.5
        1.1s   567.00nm          6.5mb
MTA     81.25 332 iPc   58 18.00   1.6
GAP     81.36 356 iPc   58 18.00   0.9
        1.2s   261.00nm          6.1mb
VRI     81.42 345 iPd   58 17.00  -0.3
ZUL     81.44 358 iP+   58 17.70   0.3
SNG     81.48 271 eP    58 18.50   0.4
CVO     81.55 346 iPd   58 19.00   0.9
BKR     81.59 332 iPc   58 18.80   0.3
        1.3s   220.00nm          6.0mb
KBA     81.65 355 iPc   58 19.80   1.0
        1.0s   488.00nm          6.5mb
                i       01 13.90
                (sS)    08 37.00
                e       08 42.80
LOR     81.66   1 iPc   58 19.30   0.7
BRD     81.71 345 iPd   58 20.00   1.1
KRV     81.74 330 iPd   58 19.00  -0.1
      Z 16s      4.00um          5.9MszX
      N 16s      6.00um
      E 16s      6.00um
                ePP     01 30.00
                ePPP    03 16.00
                eS      08 30.00
                eSKS    08 35.00
                ePS     09 25.00
CFR     81.85 344 iPd   58 20.00   0.5
SSF     81.86   2 iPc   58 20.50   0.9
        1.0s   406.00nm          6.4mb
MLR     81.91 346 iPd   58 20.00  -0.1
OGA     81.97 356 iPc   58 21.40   0.9
        1.1s   212.00nm          6.1mb
LLS     82.03 358 iP+   58 21.50   0.7
AVF     82.13   2 iPc   58 21.70   0.7
        1.1s   510.00nm          6.5mb
ISR     82.16 345 iPd   58 21.50   0.2
MFF     82.20   4 iPc   58 22.20   0.8
        1.0s   444.00nm          6.5mb
CMP     82.26 346 iPc   58 20.00  -1.8
RBL     82.27 355 Pd    58 22.00   0.1
SMF     82.28   1 iPc   58 22.50   0.7
        1.0s   575.00nm          6.6mb
COZ     82.31 347 iPd   58 23.00   0.8
BGF     82.35   2 iPc   58 22.90   0.7
        1.1s   480.00nm          6.5mb
LEN     82.38 332 iPc   58 24.00   1.4
TLB     82.45 344 iPd   58 23.30   0.3
TCF     82.60   3 iPc   58 24.20   0.7
        1.0s   234.00nm          6.2mb
LJU     82.61 354 ePc   58 23.10  -0.4
                eS      08 39.50
LSF     82.62   3 iPc   58 24.20   0.6
        1.0s   475.00nm          6.5mb
QUE     82.64 310 iPc+  58 25.00   0.8
                eS      08 41.00
MZF     82.68   2 iPc   58 24.90   1.0
        1.0s   297.00nm          6.3mb
ERE     82.73 331 iPc   58 26.00   1.7
                eS      08 45.00
CTI     82.76 356 Pc    58 24.50   0.0
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09d 18h

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        1.1s   180.00nm          6.1mb
                  (S)   08 42.00
GRS    82.78 330 iPc    58 25.20   0.5
        1.8s   450.00nm          6.2mb
                  pP    58 32.60  23kmX
                  isP   58 38.00
                  iS    08 43.00
TMA    82.80 358 iP+    58 25.00   0.3
DIX    82.85 359 iP+    58 26.00   0.9
MMK    82.87 359 iP+    58 26.30   1.1
CEY    82.92 354 iPc    58 25.00  -0.2
DRA    82.95 347 eP     58 26.00   0.7
BUC1   83.01 346 iPc    58 24.50  -1.1
KHI    83.02 318 iP     58 26.50   0.4
SSR    83.10 349 eP     58 27.00   0.9
IPM    83.23 269 ePc    58 27.40   0.2
        1.0s    56.80nm          5.6mb
SAL    83.25 357 Pc     58 27.00   0.2
ORO    83.30 359 Pc     58 28.00   0.8
NAK    83.35 330 iPd    58 27.90   0.5
RJF    83.56   3 iPc    58 29.00   0.6
        1.2s   315.00nm          6.3mb
KGM    83.79 265 ePc    58 30.50   0.5
LFF    83.90   4 iPc    58 31.00   0.9
        1.2s   828.00nm          6.8mb
CAF    83.96   3 iPc    58 31.40   0.9
        1.2s   563.00nm          6.5mb
VG1    83.97 358 Pd     58 32.00   1.5
TAB    84.09 329 eP+    58 32.00   0.6
WB2    84.15 228 iPc    58 30.20  -1.4
                  i     58 43.80
WRA    84.16 228 Pc     58 30.50  -1.2
        1.0s    30.10nm          5.4mb
LPO    84.17   3 iPc    58 32.30   0.8
        1.2s   765.00nm          6.7mb
KVT    84.18 338 iP     58 32.60   0.9
PVL    84.31 346 iPd    58 32.00  -0.3
STV    84.69 359 Pc     58 34.00  -0.2
PRT    84.95 356 P      58 38.50   3.1X
                  pP    58 55.00  58kmX
                  S     08 57.00
FIR    85.05 356 iPc    58 37.00   1.1
                  iS    08 58.00
VTS    85.14 347 iPc    58 37.00   0.7
DMK    85.18 344 iPd    58 36.60   0.0
DIM    85.33 345 iPc    58 39.00   1.7
FRF    85.38 359 iPc    58 38.50   0.9
        1.1s   545.00nm          6.7mb
LRG    85.48 360 iPc    58 39.40   1.3
        1.1s   545.00nm          6.7mb
LMR    85.60 360 iPc    58 39.80   1.1
        1.1s   567.00nm          6.7mb
TSI    85.61 270 e(P)   58 39.00  -0.1
ISK    85.68 343 eP     58 39.20   0.1
TRT    85.70 252 iPc    58 38.50  -1.0
        1.0s   101.00nm          6.0mb
CTT    85.72 343 iP     58 38.30  -1.0
KDZ    85.76 345 iPc    58 40.00   0.5
EPF    85.79   4 iPc    58 39.70   0.0
        1.2s   324.00nm          6.4mb
HRT    85.80 342 iP     58 40.30   0.5
SKO    85.99 348 iPc    58 41.50   0.8
        1.3s  1300.00nm          7.0mb
                  i     58 55.00
                  eS    09 04.00
                  iSS   15 04.00
YLV    86.10 342 eP     58 41.30  -0.1
POI    86.16 355 Pc     58 42.00   0.5
GPA    86.19 342 iP     58 42.30   0.6
LGR    86.20   6 iPc    58 42.70   1.0
        1.4s     1.27nm          4.0mb X
                  iPP   02 04.20
                  eS    09 14.70
MFT    86.27 344 iP     58 42.30   0.1
CVF    86.34 358 iPc    58 43.10   0.7
        1.0s   563.00nm          6.8mb
AQU    86.36 354 Pc     58 43.50   1.0
MNS    86.37 355 Pc     58 42.50   0.0
        1.2s   450.00nm          6.6mb
                  (S)   08 46.00
VAY    86.48 347 iPc    58 44.30   1.2
SRS    86.54 347 eP     58 53.70  10.3X
KNT    86.59 347 eP     58 54.50  10.8X
MSL    86.64 331 iP     58 44.50   0.6
SJG    86.71  65 iP     58 45.20   0.6
        1.2s   195.00nm          6.2mb
      Z  20s    12.10um          6.3Msz
                  i     58 58.50
HYB    86.90 294 ePc    58 45.00  -0.5
        1.0s   360.00nm          6.6mb
OHR    86.91 349 iPc    58 45.90   0.6
                  i     58 58.60
                  iS    09 09.20
RMP    86.94 355 Pc     58 45.50   0.2
        1.4s     1.60nm          4.1mb X
                  e     02 20.00
PTO    86.94  11 iP     58 45.20  -0.1
                  eS    09 10.00
COO    86.97 289 eP     58 47.00   1.6
DUI    86.98 354 Pc     58 46.20   0.7
RDP    86.99 355 Pc     58 45.80   0.1
FOG    87.11 353 P      58 47.50   1.4
DST    87.18 343 iPc    58 45.90  -0.7
KER    87.21 327 eP     58 48.00   1.0
EZN    87.37 344 iPc    58 47.10  -0.3
BRT    87.53 351 Pd     58 48.50   0.4
ASPA   87.58 226 eP     58 48.00  -0.5
PAIG   87.69 346 eP     58 48.60  -0.4
EBR    88.00   4 eP     58 50.00  -0.4
                  eS    09 33.00
LCI    88.00 351 Pc     58 51.00   0.6
        1.4s  1700.00nm          7.1mb
SGO    88.01 353 Pc     58 50.20  -0.2
        1.7s   500.00nm          6.5mb
                  (S)   09 02.50
ORI    88.42 352 Pc     58 53.50   1.1
POO    88.64 298 iPc    58 54.00   0.1
KRP    89.45 188 P      58 58.00   1.0
                  pP    59 09.00  35kmX
ATH    89.60 346 eP     58 58.00  -0.1
BPA    89.98  62 eP     59 00.00  -0.2
LGN    90.03  74 eP     59 16.50  16.1X
ALI    90.41   5 iP-    59 03.00   1.2
GBA    90.59 293 P      59 02.40  -0.5
        1.3s    23.00nm          5.3mb
GIB    90.67 354 (P)    59 02.00  -1.2
ERC    90.71 355 (P)    59 02.50  -0.7
PAG    90.90  63 eP     59 05.00   0.5
MGG    91.19  63 eP     59 08.00   2.3
TOV    91.20  73 ePc    59 07.80   1.9
        1.0s   163.00nm          6.4mb
UAV    91.32  75 eP     59 04.00  -2.6
MEI    91.38 353 P      59 05.50  -0.8
SDV    91.41  74 eP     59 08.20   1.2
        1.0s   103.00nm          6.2mb
CHN    91.44  80 eP     59 09.00   1.9
YOU    91.49 210 iPd    59 07.50   0.9
                  i     59 20.60
STK    91.65 216 eP     59 07.00  -0.3
FUO    92.20  79 eP     59 12.00   1.2
CAN    92.26 209 eP     59 09.50  -0.6
                  i     59 24.00
CAR    92.33  70 iPd    59 12.00   0.9
        1.0s    48.00nm          5.9mb
      Z  20s     2.13um          5.6Msz
      N  20s     2.84um
      E  20s     1.42um
MBL    92.45 239 iPd    59 11.00  -0.3
BOG    92.66  79 ePKP   59 14.00   1.0
WAM    93.10 209 eP     59 16.70   2.8
WBN    93.13 231 eP     59 14.00  -0.3
JER    93.22 335 ePc    59 15.00   0.0
PSO    93.32  84 eP     59 16.50   0.5
NAU    95.91 241 eP     59 27.00  -0.1
KIC   121.71  12 ePKP   04 54.30  -0.5
                  e     05 09.90
SOB1  123.17  59 ePKP   04 57.40  -0.2
                  e     05 11.20
BNG   123.29 345 iPKPc  04 57.00  -0.9
        1.2s    55.00nm
NAI   123.64 322 ePKP   05 01.00   2.2
        1.0s    35.00nm
ITR   124.11  56 ePKP   04 54.10  -5.4X
BAO   124.36  71 PKP    05 00.00   0.0
VAO   130.64  75 ePKP   05 11.90   0.1
                  e     05 25.60
BMA   132.10  73 ePKP   05 15.10   0.6
                  e     05 29.10
RDJ   132.81  72 ePKP   05 23.60   7.8X
AVY   133.84 299 ePKPc  05 17.00  -1.1
NPA   134.96 311 ePKP   05 20.00  -0.1
                  epPKP 05 35.00
                  e(PKS)08 52.00
MTD   139.82 320 ePKP   05 21.00  -8.2X
                  ipPKP 05 43.00
                  i     08 26.00
KRI   140.64 323 ePKP   05 24.00  -6.8X
                  ipPKP 05 45.00
                  i     08 27.00
SPA   141.25 180 e(PKP)05 22.30  -8.1X
        1.0s    11.50nm
      Z  18s     2.06um          5.9Msz
BUL   144.03 322 iPKPd  05 34.00  -2.6
                  ipPKP 05 48.00
CNG   147.92 311 iPKPd  05 44.00   1.4
        1.0s   900.00nm
                  ipPKP 05 57.00
                  i(PKS)08 11.00
MAW   148.32 218 iPKPd  05 46.10   4.1X
        1.2s   172.00nm
JOZ   148.94 310 iPKPc  05 46.50   2.2
                  i     06 00.20
SLR   149.17 318 iPKPc  05 44.20  -0.7
        1.0s   198.00nm
      Z  18s     4.88um          6.3Msz
PRE   149.23 318 iPKPc  05 49.50   4.5X
        1.2s   992.00nm
EVA   149.51 316 iPKPc  05 50.20   4.8X
                  i     05 55.10
BPI   149.67 318 iPKPd  05 44.00  -1.7
                  i     05 49.00
PRY   150.56 318 iPKPc  05 52.00   5.1X
BFS   150.82 319 iPKPc  05 52.10   4.8X
        0.8s   340.00nm
SWZ   151.66 321 iPKPc  05 48.50  -0.1
                  i     05 55.00
SEK   151.72 316 iPKPc  05 54.00   5.4X
VIR   151.83 318 iPKPd  05 55.00   6.2X
BLF   153.01 318 iPKPc  05 58.50   8.1X
KIM   153.27 321 iPKP   05 58.00   7.2X
        0.9s    91.00nm
                  i     06 11.60
HVD   154.61 318 iPKPd  05 02.00 -50.6X
        1.1s   328.00nm
                  i     05 14.90
SUR   158.03 324 iPKPc  05 44.20 -12.8X
        1.0s   792.00nm
      Z  18s     9.76um          6.7Msz
NVL   160.41 186 ePKP   06 11.00  12.9X
        2.5s   140.00nm
                  epPKP 06 20.00
                  esPKP 06 26.00
      S.D. = 1.0  on 477 of 509 obs.

   JUN  21, 1983  06h 25m 26.43± 0.05s
   41.339 N ± 0.8km  139.085 E ± 1.1km
   DEPTH =   5.0km  (geophysicist)
   6.7mb (118 obs.)  7.0Msz ( 22 obs.)
 HOKKAIDO, JAPAN  REGION          (224)
      Some damage in northern Honshu.
      Felt (IV JMA) at Aomori, Mori,
      Fukaura and Esashi; (III JMA) at
      Hakodate, Akita, Muroran,
      Hachinohe, Morioka and Mutsu;
      (II JMA) at Suttsu, Kutchan,
      Otaru, Miyoko, Urakawa, Sakata,
      Onahama and Tomakomai. One meter
      tsunami at Akita, Noshiro and
      Wakami. Fifty cm. tsunami
      reported in many areas along the
      west coast of northern Honshu.

AOMJ     1.25 128 iP     25 48.60  -1.5
HAK      1.34  69 iPd    25 51.60   0.0
                  eS    26 06.00
MOR      1.35  55 eP     25 53.00   1.2
                  S     26 10.00
AOM      1.39 112 iPd    25 51.20  -1.2
                  S     26 12.20
SUT      1.69  30 iP+    25 56.60   0.0
                  S     26 24.80
MRR      1.72  55 eP     25 58.00   0.8
                  eS    26 19.00
AKI      1.79 154 eP     25 57.00  -1.2
                  eS    26 24.00
MRRJ     1.84  53 P      25 58.60  -0.3
HAC      2.02 113 iPd    25 59.80  -1.7
                  S     26 28.50
HJH      2.16 157 iP     26 01.10  -2.5
MRK      2.28 135 Pd     26 04.30  -1.0
                  eS    26 36.00
```

TABLE 4-115

21d 06h

SAP	2.40	43	iP+	26	07.40	0.5	KYS	6.19	172	eP	27	01.90	1.2	ASZ	9.88	211	eP	27	53.00	0.9
			S	26	40.20		GIF	6.20	198	eP	27	04.00	3.1X				e	29	52.00	
SAK	2.50	166	eP	26	15.00	6.6X				e	28	01.00		OIT	10.03	219	Pd	28	01.00	6.8X
			S	26	48.40		MIS	6.22	181	ePd	27	05.00	3.9X				eS	29	52.50	
SKH	2.57	164	iP	26	07.30	-2.1				eS	28	16.00		CN2	10.36	288	Pd	27	56.00	-2.7
MIY	2.77	127	iPd	26	10.90	-1.4	SHO	6.23	64	iPc	27	00.00	-1.2	FKK	10.38	225	Pd	28	01.50	2.5
			S	26	57.50			1.0s		8.40nm			4.5mb X				eS	29	55.00	
URA	2.88	72	Pd	26	14.60	0.7		Z	13s	2674.00um			6.6Msz	IZU	10.52	231	eP	28	05.00	4.1X
			iS	26	54.80			N	13s	2480.00um							eS	30	08.00	
OFUJ	3.00	138	P	26	13.70	-1.8		E	13s	1000.00um				NOB	10.55	216	Pd	28	04.00	2.7
OFU	3.04	138	Pd	26	15.70	-0.3				iS	28	08.00					S	30	10.20	
			iS	26	55.10		YSS	6.25	23	iPc	27	03.00	1.6	SAG	10.68	224	eP	28	05.00	1.9
RMJ	3.22	35	P+	26	19.50	1.0	TSRJ	6.28	204	P	27	01.40	-0.6	KUM	10.82	221	eP	28	05.00	0.0
			S	27	06.80		AJI	6.29	180	eP	27	05.00	2.9	KUMJ	10.99	220	P	28	07.80	0.5
YAM	3.23	162	eP	26	16.00	-2.8	TAT	6.37	174	eP	27	06.00	2.7	MYZ	11.23	216	eP	28	15.00	4.4X
YAMJ	3.25	167	iP	26	16.50	-2.5				iS	28	17.50					eS	30	25.00	
HOOJ	3.31	70	iP	26	21.00	1.1	SHZ	6.38	185	eP	27	04.00	0.6	NGS	11.31	224	eP	28	15.00	3.3X
ISN	3.37	149	eP	26	21.00	0.2				eS	28	20.00					S	30	29.60	
			eS	27	07.00		NAG	6.38	196	eP	27	04.00	0.5	FKJ	11.89	227	ePd	28	26.00	6.5X
SEN	3.38	155	P+	26	21.10	0.2				eS	28	25.00					eS	30	42.00	
			eS	27	02.00		KTJ	6.38	180	P	27	04.20	0.7	KAG	11.91	218	P+	28	25.00	5.1X
AIK	3.38	191	eP	26	18.00	-2.9	HIK	6.45	201	eP	27	04.00	-0.4	KAGJ	12.00	216	P	28	23.10	0.8
			iS	26	58.50		OSH	6.57	178	Pd	27	09.20	3.1X	TAJ	12.43	214	eP	28	24.00	-2.9X
NII	3.42	180	eP	26	18.00	-3.5X	MZH	6.58	208	P	27	04.90	-1.3				eS	30	43.00	
			eS	27	04.00					eS	28	18.00		OKH	12.49	11	iPc	28	30.00	2.5
ASA	3.44	44	iP+	26	23.00	1.3	TYK	6.69	211	eP	27	07.00	-0.8	CBI	14.44	169	eP	28	48.00	-5.5X
			iS	27	10.50					iS	28	35.10		SKR	15.03	46	iPc	28	58.00	-3.1X
OBI	3.46	61	P+	26	23.60	1.6	HMM	6.71	190	Pd	27	13.50	5.5X	NZJ	15.12	214	iPd	29	08.70	6.3X
			eS	27	14.00					e	29	04.60					S	32	13.50	
FKS	3.73	163	eP	26	26.00	0.0	NGT	6.73	182	eP	27	16.00	7.7X	MVI	16.78	205	eP	29	25.00	1.3
			e	27	24.30		OMA	6.76	186	eP	27	10.00	1.3				eS	32	20.00	
NIIJ	4.09	181	iP	26	28.30	-2.7	SAI	6.82	223	eP	27	08.00	-1.5	NGO	17.33	215	ePd	29	35.00	4.4X
			S	27	14.40		KYO	6.84	204	eP	27	10.00	0.1	BJI	17.42	273	iPd	29	32.00	0.3
KUS	4.27	66	eP	26	34.00	0.4	TSU	6.93	198	eP	27	12.00	0.9		4.0s	2780.00nm				5.7mb X
			iS	27	22.50					eS	28	19.00					eS	32	56.00	
TKD	4.28	189	eP	26	31.00	-2.6	TOTJ	6.96	214	P	27	10.30	-1.3	PET	17.63	42	Pc	29	30.00	-4.2X
			eS	27	21.00		TOT	6.98	215	eP	27	09.00	-2.7	SSE	17.66	240	iPc+	29	36.00	1.3
WAJ	4.29	204	eP+	26	32.00	-1.8				e	28	36.00			Z	12s	3540.00um			
			eS	27	23.00		TK04	7.01	188	P	27	14.00	1.9		N	14s	2380.00um			
SHR	4.31	168	P	26	32.70	-1.4	TK03	7.22	187	P	27	15.80	0.8				i	29	40.00	
WAK	4.49	24	P+	26	39.10	2.5	OSA	7.22	204	eP	27	15.00	-0.1				S	33	01.50	
			eS	27	52.00					i	29	05.20		NAH	17.79	216	ePd	29	40.00	3.7X
ONA	4.61	162	P	26	39.60	1.3	OSK	7.24	203	eP	27	16.00	0.5	TIA	17.86	260	eP	29	38.20	1.0
			iS	27	47.30					i	28	51.00		KMJ	18.08	218	ePd	29	42.00	2.0
ABJ	4.67	53	eP+	26	40.00	0.7	KOB	7.32	206	P+	27	16.80	0.2	TUP	18.28	322	iPd	29	42.10	-0.1
			iS	27	36.30					eS	29	00.00			2.0s	380.00nm				5.2mb X
NGN	4.72	189	eP	26	40.10	0.1	HIM	7.35	209	eP	27	18.00	1.0	NJ2	18.65	247	Pc	29	47.50	0.6
			S	27	36.80					eS	28	53.00		MYK	20.11	219	eP	30	06.00	2.1
UTS	4.83	172	eP+	26	41.00	-0.5	TK02	7.45	189	eP	27	19.00	0.8	MGD	20.14	17	iPc	29	59.50	-4.4X
			e	27	40.00		KUR	7.50	56	iPc	27	21.00	2.0	HHC	20.72	278	Pd	30	10.30	0.0
MAT	4.84	188	P	26	40.00	-1.7	MTS	7.53	221	eP	27	21.00	1.4	TIY	20.84	269	Pd	30	12.00	0.4
MTMJ	4.85	192	P	26	39.60	-2.3				iS	28	44.50		ISI	21.03	221	eP	30	12.00	-1.5
TOY	4.85	198	eP	26	43.00	1.2	YONJ	7.57	218	P	27	19.10	-0.9				eS	35	04.00	
			eS	27	38.00		OWA	7.61	198	eP	27	20.00	-0.6	YAK	21.46	348	iPc	30	14.00	-3.5X
MAE	4.93	180	eP	26	42.00	-0.9	WKYJ	7.62	202	P	27	21.40	0.5				ePP	30	44.40	
MIT	5.07	167	eP	26	47.00	2.1	TK01	7.65	189	P	27	24.10	3.2X				iPPP	30	57.60	
			S	27	47.20		MDJ	7.69	298	iPd	27	20.00	-1.8				iS	34	11.00	
KAN	5.15	202	eP	26	45.00	-1.0	SUM	7.73	207	eP	27	23.00	0.7				iSS	34	39.00	
			S	27	45.80		WKY	7.75	205	iPd	27	25.00	2.5	ANP	21.74	228	iP+	30	20.00	-0.7
TSK	5.18	171	eP	26	44.20	-2.3				iS	28	55.50					eS	33	58.00	
KMG	5.19	177	P	26	51.30	4.7X	OKA	7.80	213	eP+	27	23.00	-0.2	TATO	21.92	227	e(P)	30	22.00	-0.4
KAKJ	5.20	170	iP	26	44.60	-2.1				eS	28	51.00		BTO	21.92	278	iPd	30	22.00	-0.5
NEM	5.21	65	P+	26	46.70	-0.2	TKM	8.06	211	eP	27	27.00	0.1	WHN	22.67	250	iPc	30	29.00	-0.8
			S	27	43.40					S	29	05.80					iS	34	37.00	
CHJJ	5.28	181	iP	26	46.50	-1.5	TKS	8.09	208	P+	27	27.50	0.1	BOD	22.89	325	eP	30	29.30	-2.5
DDR	5.33	179	eP	26	47.50	-1.2				e	29	41.00			1.5s	1090.00nm				6.2mb
TKY	5.37	196	P	26	48.50	-0.8	HJJ	8.24	176	Pd	27	32.90	3.4X	SEY	23.00	16	iPc	30	30.80	-2.0
VLA	5.63	291	iPc	26	50.00	-2.8				S	29	19.30			2.0s	1890.00nm				6.3mb
YUK	5.64	59	iPc	26	53.20	0.3	SHJ	8.31	200	P	27	29.00	-1.4		Z	13s	666.00um			7.3MszX
	2.0s		99.00nm			5.2mb X				S	29	09.70			N	13s	488.00um			
			eS	27	57.60		TKSJ	8.36	210	P	27	31.60	0.5		E	13s	536.00um			
TOK	5.67	174	P	27	00.00	6.6X	SHK	8.47	219	iPc	27	31.60	-1.1				ePPP	31	08.80	
			eS	28	06.00					eS	28	59.50					iS	34	42.80	
KOF	5.68	184	eP	26	54.00	0.4	HMD	8.48	223	eP	27	34.00	1.2	XAN	24.87	263	eP	30	50.10	-1.2
			eS	27	59.00					S	29	10.10		IRK	25.95	307	Pd	31	00.00	-1.2
SRY	5.72	178	eP	26	55.10	0.9	HIR	8.72	219	P	27	40.00	3.8X	SMY	26.18	52	iPc	31	04.10	0.8
FUK	5.73	204	eP	26	57.00	2.8				e	28	21.50			Z	20s	235.00um			6.7Msz
			S	28	01.00		KOC	8.93	211	P	27	39.60	0.5	ZAK	26.30	302	iPc	31	03.00	-1.5
CHO	5.77	166	P	26	56.10	1.3				S	28	50.90			2.5s	1400.00nm				6.2mb
			e	28	10.00		MRT	8.97	207	eP	27	41.00	1.4		N	20s	9030.00um			
FUN	5.84	183	eP	27	02.00	6.2X				e	29	28.00			E	20s	6715.00um			
IID	5.96	190	eP+	26	55.00	-1.7	MTY	9.00	216	eP	27	41.00	1.0				iS	35	38.00	
			iS	27	58.60					e	29	37.00		PIP	27.86	220	iPc	31	29.00	10.1X
OYM	5.91	179	eP	26	56.90	0.1	SHNJ	9.58	224	P	27	48.40	0.5	LZH	27.87	271	Pd	31	18.50	-0.6
YOK	5.91	175	Pd	27	01.60	4.9X	UWA	9.62	215	eP	27	51.00	2.5				S	36	02.00	
			eS	28	17.00		SHN	9.80	224	Pd	27	53.40	2.4	MOY	27.89	305	eP	31	17.40	-1.5
IIDJ	5.92	189	P	26	55.40	-1.6				eS	29	40.00			1.5s	160.00nm				5.6mb X

TABLE 4-116

21d 06h

GUMO	28.10	168	eP+	31	19.50	-1.7	COL	46.50	34	iP	33	55.30	-0.7	SAM	53.34	294	iPc	34	47.60	-1.2
PJG	28.10	168	e(P)	31	19.50	-1.7				iS	40	46.00			9.0s	*******	nm			7.2mb X
			(pP)	31	26.60	25kmX	FBA	46.50	34	iPc	33	55.40	-0.6				iPP	36	53.20	
GUA	28.16	168	eP+	31	19.50	-2.2	MDG	46.76	171	eP	34	01.00	2.5				iS	42	20.60	
	0.8s	269.00nm				6.1mb	FRU	46.81	294	eP	33	57.50	-1.2				iSS	45	57.00	
	Z 22s	176.00um				6.6Msz		2.0s	1080.00nm				6.6mb	SVO	53.74	154	eP	34	55.00	3.2X
			eS	36	20.00			Z 10s	147.00um				7.2MszX	HNR	54.05	154	e(P)	34	54.00	0.0
GZH	28.22	238	Pc	31	23.00	0.8		N 10s	298.00um					SIT	54.36	42	ePc	34	56.70	0.8
HKC	28.27	235	iP	31	24.80	2.2		E 10s	200.00um					PPI	54.37	230	eP	34	56.30	-0.2
			iS	36	25.00					iPP	35	54.00			1.4s	224.00nm				6.0mb
MCO	28.78	236	eP	31	29.70	2.4				iS	40	42.00		MTN	54.41	190	eP	34	53.00	-3.7X
BAG	29.53	218	iP+	31	31.00	-3.2X	RAB	46.86	162	iPc+	33	59.80	0.5	ALE	55.94	3	iP	35	05.80	-1.4
	2.0s	1350.00nm				6.4mb	KSH	47.14	290	eP	34	03.00	1.5		0.7s	268.00nm				6.4mb
GTA	29.81	279	iPd	31	34.70	-1.9	KHE	48.06	347	iPc	34	08.00	-0.1	HON	56.11	90	P	35	11.00	1.9
			PP	32	31.50		SNG	48.19	236	iPc+	34	09.00	-0.8	HYB	56.67	264	ePc	35	12.00	-1.3
			iS	36	31.20			1.2s	1060.00nm				6.8mb		1.6s	1540.00nm				6.8mb
CD2	30.19	261	eP	31	36.60	-3.3X		Z 22s	55.60um				6.5Msz				eS	43	02.00	
GYA	30.52	251	Pc	31	43.00	0.0		N 20s	56.40um					APA	58.06	334	iPc	35	21.20	-1.2
TIK	30.80	354	iPc	31	41.50	-3.2X		E 20s	39.00um					KKH	58.60	91	eP	35	26.00	-0.7
MAN	30.84	216	iPc	31	47.00	1.4				iS	40	15.50		KEV	58.78	338	iPc+	35	26.00	-1.4
OCP	30.86	216	eP	31	34.00	-11.8X	LAT	48.31	169	eP	34	11.50	0.9		0.6s	509.00nm				6.8mb
CNP	31.37	208	ePd	31	52.00	1.7	ANR	49.16	293	eP	34	16.70	-0.4				i	35	32.50	
ADK	31.70	55	iPc	31	51.4[illegible]	-1.5		1.6s	650.00nm				6.4mb				ePPP	39	04.00	
PLP	32.51	206	ePd	31	57.30	-3.0X		Z 12s	240.00um				7.4MszX				eS	43	24.00	
KMI	34.14	253	P+	32	14.00	-0.7		N 12s	285.00um					POO	59.53	268	iPc	35	33.20	-0.1
	9.0s	19.30nm				4.0mb X		E 12s	455.00um					GBA	59.90	262	Pc	35	33.20	-2.6
	E 14s	220.00um								eS	41	24.50			0.8s	188.00nm				6.3mb
			pP	32	33.00	80kmX	MKS	49.69	206	iPc	34	22.50	1.2	ASH	60.08	296	eP	35	36.00	-0.8
			sP	32	41.00		PAA	49.73	158	eP	34	20.00	-1.8		2.0s	2380.00nm				7.0mb
			PP	33	29.00		IPM	49.97	233	ePd	34	24.10	0.6				ePcP	36	26.00	
			PcP	34	58.00			1.0s	159.00nm				5.9mb				ePP	37	46.00	
			S	37	31.00					e	34	44.90					ePPP	39	24.00	
			sS	37	54.00					e	35	44.00		MHI	60.15	294	iPc+	35	38.40	0.9
			iScS	42	22.00		KGM	50.68	229	ePd	34	28.00	-0.9		2.0s	988.00nm				6.6mb
ILT	34.90	26	Pd	32	18.00	-2.5		0.9s	255.00nm				6.2mb				e	39	24.00	
CGP	35.15	205	eP	32	18.90	-4.2X				e	55	47.50					eS	43	56.00	
DAV	36.17	203	iPc+	32	31.00	-0.7	LMG	50.69	168	iPc	34	29.00	-0.1	VAN	60.25	296	ePc	35	36.50	-1.5
ELT	36.93	307	iPc	32	36.50	-1.2	SVE	50.77	316	iPc	34	29.00	-0.1		1.5s	400.00nm				6.3mb
WMO	37.43	291	iPc	32	42.80	0.6		9.0s	*******	nm			7.4mb X				ePP	37	52.00	
			iS	38	32.00			Z 18s	531.00um				7.6Msz				eSP	43	56.00	
			PcS	38	45.00			N 18s	167.00um					SOD	60.30	336	iP	35	36.70	-1.2
NRI	38.45	334	iPc	32	47.40	-2.9		E 18s	345.00um					YKA	61.02	31	eP	35	41.60	-1.2
	1.6s	750.00nm				6.1mb				iPP	36	23.00		RSNT	61.03	31	iPc	35	42.00	-0.9
			esP	33	03.00					iS	41	45.00		YKC	61.07	31	ePc	35	42.00	-1.2
			iS	38	38.00					iSS	45	20.00			1.6s	1220.00nm				6.8mb
ANM	38.97	34	iPc	32	54.90	0.1	PCA	50.90	40	iPc	34	30.30	0.1	WB2	61.13	185	iPc	35	40.70	-3.2X
LSA	40.24	269	Pc	33	07.20	0.9	PMG	51.04	170	eP+	34	30.00	-1.6				eS	44	17.50	
KKM	40.64	216	ePd	33	10.00	0.8	TAS	51.04	295	iPc	34	31.60	0.1				eP'P'	05	01.70	
SEM	40.97	303	Pc	33	09.90	-1.6		3.0s	9500.00nm				7.2mb	DAG	61.34	354	iPc	35	43.00	-1.8
SDN	41.20	49	eP	33	12.70	-0.5				iS	41	48.60			1.1s	84.80nm				5.8mb
BDT	41.89	247	eP	33	16.00	-3.3X				eSS	45	20.00					iS	44	07.00	
	0.9s	147.00nm				5.7mb				eSSS	46	58.60		PHC	61.40	46	ePc	35	44.50	-1.1
PCT	42.05	242	iPc	33	23.00	2.3	NDI	51.23	276	iP	34	32.00	-1.1		2.0s	1450.00nm				6.8mb
	1.0s	650.00nm				6.3mb		0.9s	361.00nm				6.3mb	CTA	61.47	172	iPd+	35	44.00	-2.3
TTA	43.01	37	iPc	33	28.40	0.3				PcP	35	46.00			1.6s	530.00nm				6.5mb
JAY	43.67	178	ePd	33	35.00	1.1				i	36	12.00					iS	44	04.00	
MOM	43.83	168	eP	33	34.00	-1.2				iS	41	51.00		CTAO	61.47	172	eP	35	44.70	-1.6
IMA	43.98	33	iPc	33	34.70	-1.3				iSS	45	24.00			2.4s	1010.00nm				6.6mb
PRZ	44.32	293	eP	33	38.00	-1.1	GAR	51.33	292	eP	34	34.50	0.7				e	35	51.50	
	1.4s	750.00nm				6.4mb		2.5s	250.00nm				5.7mb	KIR	61.85	338	iP	35	47.30	-1.2
	Z 18s	960.00um				7.8Msz				iPPP	37	32.50		KJF	61.86	332	iP+	35	47.00	-1.6
	E 18s	1128.00um					INK	51.44	28	ePc	34	32.50	-1.5		1.6s	2530.00nm				7.2mb
			ePcP	35	22.00			0.9s	650.00nm				6.6mb				ePP	37	44.00	
			iS	40	13.00		ARU	51.97	316	iPc	34	38.00	-0.3				ePPP	39	24.00	
			eScS	43	34.00			2.0s	3800.00nm				7.0mb				eS	44	12.00	
TLG	44.75	294	iPc	33	42.20	-0.3		Z 17s	525.00um				7.6MszX	KHI	61.88	292	eP	35	49.50	0.1
	Z 18s	580.00um				7.5Msz		N 12s	280.00um					KOD	62.07	259	iPc	35	51.00	0.1
			ePP	35	34.50			E 20s	345.00um					SUF	63.34	332	iP	35	56.50	-1.8
			iS	40	23.50					ePcP	35	45.00		OBN	63.55	321	iPc	35	59.80	0.0
			iScS	43	38.00					ePP	36	35.00		PUL	63.58	328	iPc	35	59.50	-0.5
WWW	44.90	174	eP	33	44.00	0.2				iS	42	01.00			1.8s	2450.00nm				7.1mb
KVG	44.99	163	eP	33	43.00	-1.5				eScS	44	29.00			Z 15s	300.00um				7.6MszX
AAA	45.05	294	iPc	33	46.00	1.1				iSS	45	36.00			N 16s	360.00um				
			ePP	35	29.00		KUL	52.21	291	iPc	34	40.50	0.1		E 14s	250.00um				
			iS	40	25.00			Z 17s	7931.00um				8.8MszX				isP	36	12.00	
			eSS	43	34.00			N 16s	461.00um								ePP	38	22.00	
KDC	45.26	45	iPc	33	45.70	-0.5				iS	42	05.50					eS	44	32.00	
KKN	45.64	270	eP	33	50.40	0.4				iSP	42	09.50					eSP	44	44.00	
PKI	45.66	270	eP	33	47.90	-2.4				iScS	44	25.90					eScS	45	40.00	
DMN	45.87	270	eP	33	49.70	-2.1	DSH	52.60	292	iPc	34	43.40	0.0				eSS	48	34.00	
AAI	45.90	195	iPd	33	52.80	1.1				iPP	36	50.00		BAK	64.35	302	iP	36	06.00	0.7
	0.7s	186.00nm				6.2mb				iPPP	37	50.00					iS	44	47.00	
PMR	46.33	39	iPc	33	54.30	-0.4				eS	42	10.00		MAK	64.45	306	iPc	36	05.60	-0.3
	2.0s	446.00nm				6.2mb	PSI	52.73	234	ePd	34	37.50	-6.9X		Z 18s	445.00um				7.7Msz
	Z 20s	150.00um				6.9Msz	MBC	52.93	17	ePc	34	43.20	-2.1		N 18s	490.00um				
NRN	46.36	292	eP	33	55.20	-0.4		0.8s	546.00nm				6.5mb		E 18s	140.00um				
			eS	40	50.00		KUPT	53.18	199	eP	34	49.00	1.3				ePcP	36	42.00	

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			iS	44	47.00		LGBM	69.69	53	ePc	36	39.70	0.3				i	39	58.00				
PGC	64.68	47	eP	36	07.00	-0.3	WDC	69.95	53	iPc	36	40.80	0.2				iS	46	42.00				
MBL	64.70	200	eP	36	07.00	-0.6				e	46	20.80		EUR	74.55	51	iP	37	08.00	-0.3			
PVC	64.72	149	iPc	36	06.70	-1.1				e	04	42.00			0.5s		6.65nm			4.9mb X			
ASPA	64.85	185	eP	36	06.00	-2.6	MEK	70.24	199	eP	36	40.00	-2.4	BMR	74.62	321	ePd	37	10.00	1.8			
MCW	65.00	46	eP	36	09.30	-0.2	RMT	70.28	54	eP	36	42.20	-0.4	ISR	74.90	317	ePc	37	11.00	1.1			
NUR	65.31	330	iPc+	36	10.20	-1.0	MIN	70.66	53	iPc	36	44.60	-0.6	SCCM	74.94	57	eP	37	11.00	0.7			
			i	36	20.00		FCC	70.95	26	ePc	36	44.40	-2.0	MLR	74.96	318	ePc	37	10.00	-0.4			
			ePP	38	32.00			2.2s	5050.00nm				7.3mb	SPC	75.03	323	iPc	37	12.40	1.6			
			ePPP	40	20.00		MSL	70.99	302	ePd	36	46.50	-0.5	CEI	75.11	321	eP	37	16.00	5.0X			
			eS	44	56.00		SIM	71.02	313	iPc	36	47.00	-0.1	BEI	75.17	47	eP	37	12.30	0.6			
			eSS	48	28.00					ePcP	37	07.00		KLB	75.19	199	iPc	37	10.80	-0.7			
GRO	65.32	307	iPc	36	11.00	-0.6				ePP	39	29.00		CJR	75.26	320	eP	37	13.40	1.4			
	8.0s	*******	nm			7.8mb X				iS	46	03.00		MDB	75.28	319	iPc	37	15.00	3.0X			
			iS	44	55.00					eScS	46	43.00		JOS	75.41	323	iPc	37	12.80	0.1			
GMW	65.68	47	eP	36	14.00	0.2	FFC	71.06	32	eP	36	46.00	-1.1	BRL	75.46	329	iPc	37	14.00	1.2			
KOU	65.87	154	iPc	36	15.10	0.0		1.2s	840.00nm				6.7mb	WKTM	75.47	55	eP	37	12.00	-1.4			
TEH	65.97	297	eP	36	16.00	0.0	ORV	71.21	54	iPc	36	47.00	-1.3	KSP	75.51	327	eP	37	11.60	-1.6			
BFW	66.05	49	eP	36	16.00	-0.3	BKS	71.80	55	eP	36	50.80	-1.1		1.2s		976.00nm			6.8mb			
PNT	66.36	44	iPc	36	17.60	-0.5		1.9s	3100.00nm				7.1mb				i	37	13.50				
	1.0s	159.00nm				6.2mb		Z 20s		34.00um			6.6Msz				eS	47	00.00				
KRV	66.46	304	iPd	36	17.00	-1.9		N 20s		15.00um				BRN	75.53	329	iPc	37	14.00	0.7			
	Z 12s		20.00um			6.5MszX		E 20s		18.00um				CMP	75.57	318	ePd	37	21.00	7.3X			
	N 12s		6.30um							eS	46	16.00		RIV	75.62	170	eP	37	15.00	1.1			
	E 12s		100.00um							eScS	46	58.00		YOU	75.73	172	iPc	37	13.30	-1.2			
			ePPP	40	26.00					eSS	50	44.80					i	40	03.40				
			iS	45	08.00					eSSS	54	32.80		MOUT	75.74	47	eP	37	15.20	0.0			
			eScS	46	12.00		AKU	71.85	350	iPc+	36	53.00	1.4	VPEM	75.75	55	eP	37	14.30	-0.8			
			eSS	49	18.00			1.9s	2380.00nm				7.0mb	CGN	75.86	317	ePc	37	16.00	0.7			
			eSSS	52	17.00			Z 17s		72.10um			7.0MszX	COZ	75.88	319	ePd	37	16.00	0.3			
PYA	66.50	309	iPc	36	18.00	-1.1				i	39	31.90		DUG	75.89	49	P	37	16.00	0.2			
	2.0s	1320.00nm				6.8mb	LRM	72.33	44	ePc	36	54.20	-1.0	BDW	75.91	45	iPc	37	15.00	-1.0			
			iPP	38	50.00		KIS	72.44	318	iPc	36	54.00	-1.5	HAM	75.93	331	iPc	37	17.20	1.7			
			eS	45	07.00			2.0s	2200.00nm				6.9mb	ADE	75.93	180	ePc	37	16.00	0.3			
			iS	45	08.00			Z 17s		308.00um			7.6MszX		1.3s		365.00nm			6.3mb			
			ePPS	45	49.00			N 16s		179.00um				MUN	75.95	200	eP	37	16.00	0.2			
LON	66.68	48	iP	36	20.00	-0.3		E 14s		341.00um				PSZ	76.12	323	iPc	37	17.80	0.9			
EDM	67.10	38	ePc	36	20.80	-2.0				iPPP	41	16.00		DEV	76.19	320	ePd	37	21.00	3.8X			
	2.0s	2920.00nm				7.1mb				iS	46	06.00		HRT	76.20	313	iP	37	16.80	-0.6			
COR	67.11	50	iPc	36	23.00	0.1				iSP	46	48.00		GPA	76.21	312	iP	37	17.20	-0.2			
GRS	67.12	303	iPc	36	22.20	-1.1	MHC	72.50	56	eP	36	56.40	0.2	ISK	76.37	313	iP	37	18.60	0.3			
	2.0s	830.00nm				6.6mb	COO	72.53	168	iPd	36	57.50	1.4	BRG	76.44	328	iPc+	37	18.60	0.1			
	Z 12s		32.00um			6.8MszX	ARN	72.56	56	eP	36	55.80	-0.7		1.9s		1750.00nm			6.8mb			
	N 12s		41.00um				CMS	72.73	174	eP	36	56.00	-1.2				eS	47	04.00				
	E 12s		40.00um				LVV	72.86	322	iPc	36	58.00	0.1				P'P'	05	33.00				
			iPcP	36	51.00			9.0s	*******	nm			7.5mb X	CLL	76.48	329	iP	37	17.50	-1.2			
			iPP	38	59.00			Z 12s		129.00um			7.4MszX		1.7s		2150.00nm			7.0mb			
			iS	45	15.00					iPPP	41	20.00					eS	47	06.00				
NAU	67.22	204	eP	36	22.00	-1.7				iS	46	16.00		YLV	76.54	312	iP	37	18.80	-0.6			
ERE	67.87	304	iPc	36	28.00	0.1				iScS	46	59.00		DMK	76.56	314	ePd	37	18.50	-0.9			
			iS	45	28.00		JAS	72.86	54	iPc	36	58.50	0.3	NWAO	76.59	199	eP	37	18.00	-1.4			
LEN	67.93	305	iPc	36	29.00	0.6	STK	72.89	178	eP	36	57.00	-1.1	PAS	76.71	56	iPc	37	20.00	-0.3			
	7.0s	*******	nm			7.3mb X	SLD	72.93	56	iP	36	59.10	0.5		1.1s		970.00nm			6.8mb			
			iPcP	36	48.00		FRB	72.98	12	eP	36	56.00	-2.4		Z 20s		31.00um			6.6Msz			
			iPP	39	04.00		BMN	73.20	51	eP	37	00.10	-0.2				ePP	40	22.00				
			ePPP	40	40.00					eS	46	28.00					ePPP	42	08.00				
TAB	67.95	302	iP+	36	29.00	0.4	COP	73.28	332	iPc	37	00.00	-0.2				eS	47	08.00				
NOU	68.23	153	iPc	36	29.40	-0.7		1.5s	2220.00nm				7.0mb				ePS	47	41.00				
UPP	68.30	332	iP	36	18.50	-11.6X				iS	46	46.00					ePPS	48	08.00				
			iS	45	30.00		CLI	73.55	318	ePc	37	02.50	0.4				eSS	52	15.00				
NEW	68.31	44	iPd	36	29.50	-1.0	KLG	73.59	196	iPc	37	03.30	1.0				eSSS	55	44.00				
NDF	68.70	141	ePc	36	40.20	7.1X	BAC	73.73	318	eP	36	57.00	-6.0X				e	57	36.00				
SHI	68.71	291	eP	36	32.00	-1.4	MUD	73.79	334	iPc	37	04.70	1.5	CLO	76.82	319	eP	37	20.00	-0.7			
SOC	68.72	310	iPc	36	32.00	-1.0		1.1s	230.00nm				6.1mb	CAN	76.83	172	iPc	37	21.10	0.4			
	2.0s	1200.00nm				6.8mb	REY	73.79	351	iP	37	06.40	3.3X	BKU	76.83	50	eP	37	20.10	-1.1			
			ePP	39	04.00		PRI	73.86	56	eP	37	04.80	0.6	BUD	76.84	323	iPc	37	21.70	0.9			
			ePPP	40	50.00		FRI	73.92	55	eP	37	04.50	0.2		1.6s		120.00nm			5.8mb			
			iS	45	40.00		CFR	74.04	317	ePd	37	04.50	-0.3	PRU	76.88	327	P	37	21.20	0.2			
FHC	68.94	54	eP	36	35.40	0.9	VRI	74.30	318	iPc	37	06.00	-0.4		1.7s		1590.00nm			6.9mb			
PNO	69.06	47	eP	36	35.00	-0.1	IMW	74.42	45	eP	37	07.50	0.0		Z 14s		272.00um			7.7MszX			
LDM	69.13	43	iPc	36	35.40	-0.2	UZH	74.50	322	iPc	37	08.00	0.6				S	46	55.00				
ANN	69.30	312	iPc	36	36.00	-0.6		2.2s	420.00nm				6.1mb	SRE	76.92	319	ePd	37	24.00	2.7			
	1.5s	1450.00nm				6.9mb		Z 11s		250.00um			7.8MszX	SRO	76.92	324	iPc	37	22.00	0.8			
			ePcP	37	06.50					iPcP	37	18.00					i(PP)	40	14.40				
			ePP	39	16.00					iPP	39	57.00					i(S)	47	05.60				
			ePPP	40	48.00					iS	46	44.00		PVL	77.00	317	iPc	37	22.00	0.3			
			iS	45	43.00					iSP	47	14.00		ALT	77.16	311	iP	37	22.50	-0.3			
			ePPS	46	19.00		TLB	74.51	316	iPc	37	09.50	1.9	ZST	77.16	324	iP	37	22.80	0.2			
GDH	69.34	5	iPc	36	33.50	-2.8	BAL	74.51	200	eP	37	07.00	-0.6		Z 12s		178.00um			7.6MszX			
	1.5s	1560.00nm				7.0mb	KRA	74.53	324	iPc	37	08.10	0.5				eS	47	17.50				
VUN	69.41	140	iPd	36	25.60	-11.8X		1.5s	2320.00nm				7.0mb	RSON	77.27	31	iPd	37	22.20	-0.9			
	1.7s	50.90nm						N 20s		311.00um				VKA	77.45	325	ePc	37	25.10	0.9			
HFS	69.43	334	eP	36	36.50	-0.6		E 20s		339.00um					1.7s		1730.00nm			6.9mb			
	1.7s	2310.00nm				7.1mb				i	37	09.60					i	37	27.00				
SVA	69.50	140	iPd	36	39.50	1.5				i	37	15.60					iPP	40	22.10				
NB2	69.52	336	P	36	36.00	-1.8				i	37	19.60					iS	47	17.00				
KER	69.63	298	eP	36	40.50	1.5				i	37	32.90		SSR	77.49	320	iP	37	25.00	0.6			

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EDC     77.53 313 ePc   37 24.10  -0.6
MFT     77.54 314 iP    37 24.80  -0.1
MOX     77.54 329 iPc+  37 24.50  -0.1
        1.8s  1690.00nm          6.9mb
      Z  13s   213.00um          7.7MszX
      N  17s   410.00um
      E  17s   388.00um
                iPP   40 20.00
                iS    47 15.00
                iSS   52 00.00
                iSSS  55 50.00
                eP'P' 04 25.00
DIM     77.56 316 iP    37 27.00   2.1
WIT     77.61 333 ePc   37 26.00   1.1
WAM     77.68 172 eP    37 26.00   0.7
HOF     77.70 328 iPc   37 25.60   0.1
        1.7s  2140.00nm          7.0mb
                eS    47 20.00
RSSD    77.80  41 iPd   37 26.00  -0.5
KHC     77.94 327 iPc   37 26.60  -0.3
      Z  13s    52.30um          7.0MszX
      N  12s    53.60um
      E  12s    54.00um
                e     40 10.50
                S     47 22.00
BCK     77.97 310 iP    37 26.00  -1.3
KDZ     77.97 315 iPc   37 28.00   0.9
WET     78.22 327 iPc   37 29.00   0.6
                eS    47 25.00
WTS     78.23 332 iPc   37 28.90   0.6
        1.6s  1250.00nm          6.8mb
                ePP   40 29.00
                eP'P' 04 30.50
VTS     78.40 319 iPc   37 29.00  -0.4
GRF     78.45 328 iPc   37 30.70   1.1
        1.8s  4250.00nm          7.2mb
      Z  21s   107.00um          7.2Msz
                eS    47 25.00
                e     47 35.00
GRFO    78.45 328 eP    37 30.20   0.6
EKA     78.47 339 Pd    37 28.80  -0.8
        1.9s  1160.00nm          6.6mb
DBN     78.71 333 iP+   37 31.00   0.1
      Z  23s   120.00um          7.2MszX
                ePP   40 32.00
                e     43 30.00
                iS    47 29.00
                ePS   48 14.00
                eSS   52 36.00
EZN     78.73 314 iPc   37 30.50  -0.8
TOO     78.75 175 eP    37 31.00  -0.2
ELL     78.85 309 iPc   37 31.50  -0.7
BNS     78.95 331 iPc   37 32.40   0.1
                iPP   40 37.50
                iS    47 30.50
JER     79.00 303 eP    37 34.00   1.0
RMU     79.07  50 iPd   37 34.20   0.7
TNS     79.09 330 ePc   37 33.40   0.2
                ePcP  37 54.00
                ePP   40 42.00
                eS    47 37.00
IZM     79.22 312 iPc   37 33.00  -1.1
SRS     79.27 316 ePc   37 34.40   0.1
BHG     79.34 326 iPc   37 35.50   1.0
GLA     79.52  55 eP    37 35.70  -0.1
YER     79.53 311 iPc   37 35.70  -0.1
ENN     79.56 332 iPc   37 35.60   0.0
        1.6s   726.00nm          6.4mb
                ePP   40 39.00
                eP'P' 04 23.00
KNT     79.60 316 ePd   37 36.60   0.5
SOH     79.61 316 ePc   37 38.10   1.9
OUR     79.63 315 ePd   37 36.70   0.5
FUR     79.65 327 iPc   37 37.20   1.0
        1.7s  2820.00nm          7.0mb
                eS    47 40.00
KBA     79.65 326 ePd   37 36.30  -0.1
        2.0s  2840.00nm          6.9mb
                i     37 38.80
                i     37 46.00
                i     40 35.30
                iPP   40 42.50
                e     47 08.20
                (sS)  48 01.70
LJU     79.94 324 iPc   37 37.80   0.0
                ePP   40 41.50
                eS    47 40.00
THE     79.95 316 ePc   37 38.00   0.1
                eS    47 44.00
GRG     80.01 317 ePd   37 38.70   0.4
UCC     80.08 333 P+    37 37.70  -0.7
                S     47 45.00
PAIG    80.08 315 ePd   37 38.90   0.3
CEY     80.23 324 iP    37 39.20  -0.1
GAP     80.28 327 iPc   37 40.40   0.8
        1.6s  3930.00nm          7.1mb
GOL     80.32  45 iPc   37 40.80   0.5
GLD     80.36  45 iPd   37 41.40   1.0
      Z  19s    60.00um          7.0Msz
WLF     80.39 331 P+    37 42.00   1.9
                PP    40 43.00
                e     43 57.00
                S     47 50.00
GWF     80.42 330 iPKP  37 40.50   0.2
BUH     80.43 329 ePc   37 37.00  -3.4X
TRI     80.54 325 iPc   37 40.40  -0.5
                ePP   40 46.50
                eS    47 45.10
                eSP   48 24.50
                eSS   52 28.40
                eSSS  56 12.90
LIT     80.59 316 ePc   37 41.90   0.5
DOU     80.59 332 Pc+   37 41.20   0.1
                PP    40 44.00
                S     47 48.00
                e     48 15.00
                e     57 11.00
STR     80.69 330 iPc   37 44.40   2.7
DMU     80.74 340 iPc   37 42.10   0.2
        2.0s  3240.00nm          7.0mb
OGA     80.78 327 iPc   37 42.70   0.2
LHC     80.95  30 iPc   37 42.60  -0.5
        1.0s   747.00nm          6.7mb
CDF     81.01 330 iPc   37 43.80   0.3
        1.4s  1100.00nm          6.7mb
DDK     81.05 340 eP    37 43.90   0.4
        2.0s  1740.00nm          6.7mb
SLE     81.07 329 iP+   37 44.00   0.2
DLE     81.20 340 iPc   37 44.50   6.2
        2.0s  2520.00nm          6.9mb
ECH     81.22 330 iPc   37 44.50   0.0
DCN     81.33 340 iPc   37 45.40   0.4
        1.7s  1720.00nm          6.8mb
ZUL     81.35 329 iP+   37 45.80   0.5
ATH     81.48 314 iPc   37 46.00   0.0
                ePP   40 56.00
                iS    47 56.00
                iSKS  48 00.00
CRZ     81.48 152 P     37 48.30   2.5
BAF     81.60 330 iPc   37 46.80   0.2
LLS     81.61 328 eP+   37 47.40   0.6
BSF     81.68 330 iPc   37 47.20   0.2
        1.4s   613.00nm          6.5mb
SCH     81.70  15 ePc   37 46.70  -0.2
        2.0s  1180.00nm          6.6mb
HAU     81.70 330 iPc   37 47.40   0.4
        1.4s   490.00nm          6.4mb
SAL     82.00 326 iPc   37 49.00   0.4
TMA     82.28 328 eP+   37 50.20  -0.1
MMK     82.69 328 eP+   37 53.20   0.7
LCI     82.73 319 iP    37 53.20   0.8
HLW     82.73 303 iPc   37 59.00   6.3X
                eS    41 04.00
DIX     82.88 328 eP+   37 54.20   0.6
ORO     83.03 328 iP    37 53.70  -0.4
VG1     83.14 327 iPd   37 55.20   0.7
                ePP   41 10.00
                eS    48 22.50
FIR     83.16 325 iPc   37 55.00   0.4
                iS    48 14.00
ALQ     83.16  49 iP    37 54.50  -0.6
        1.5s   694.00nm          6.6mb
      Z  20s    49.70um          6.9Msz
LOR     83.24 331 iPc   37 54.00  -1.0
        1.2s   459.00nm          6.6mb
AQU     83.33 323 iPc   37 57.00   1.3
                ePP   41 10.00
VAL     83.35 341 iP    37 56.00   0.5
                S     48 17.00
FLN     83.45 334 iPc   37 56.20   0.1
        1.4s   490.00nm          6.5mb
LDF     83.48 334 iPc   37 56.30   0.1
        1.5s   661.00nm          6.6mb
SSF     83.54 331 iPc   37 55.80  -0.8
        1.2s   513.00nm          6.6mb
MNS     83.64 323 iPd   37 57.50   0.4
        1.4s  1000.00nm          6.8mb
                iPP   41 11.50
SMF     83.77 331 iPc   37 56.90  -0.9
        1.5s  1340.00nm          6.9mb
AVF     83.83 331 iPc   37 57.20  -0.8
SGO     83.85 320 iPc   37 58.40   0.2
        1.3s  1100.00nm          6.9mb
                iPP   41 14.00
GRR     83.90 334 iPc   37 58.70   0.4
        1.4s   858.00nm          6.8mb
RMP     84.08 323 iPc   37 59.50   0.1
                iPP   41 18.00
                iS    48 24.00
RAR     84.12 125 iP    38 04.00   4.3X
                S     48 32.00
BGF     84.21 331 iPc   37 59.30  -0.7
        1.5s   802.00nm          6.7mb
LPF     84.27 334 iPc   37 59.60  -0.6
        1.4s   980.00nm          6.8mb
MZF     84.59 331 iPc   38 01.70  -0.2
        1.4s  1840.00nm          7.1mb
TCF     84.67 332 iPc   38 02.00  -0.3
        1.2s   594.00nm          6.7mb
LSF     84.94 332 iPc   38 03.00  -0.6
        1.2s  1010.00nm          6.9mb
CVF     85.16 326 iPc   38 04.80   0.0
        1.2s   405.00nm          6.5mb
MFF     85.22 333 iPc   38 04.90  -0.1
        1.4s  1470.00nm          7.0mb
FRF     85.27 327 iPc   38 05.40   0.1
        1.4s   674.00nm          6.7mb
LRG     85.48 328 iPc   38 05.60  -0.7
        1.4s   982.00nm          6.8mb
LMR     85.52 327 iPc   38 05.60  -0.9
        1.4s  1100.00nm          6.9mb
KRP     85.63 152 P     38 09.80   2.9
RJF     85.76 331 iPc   38 07.40  -0.4
        1.4s   943.00nm          6.8mb
ACO     85.82  43 iP    38 08.10  -0.1
        2.0s  4730.00nm          7.3mb
CAF     85.89 331 iPc   38 08.60   0.2
        1.4s  1650.00nm          7.0mb
LFF     86.36 332 iPc   38 10.60  -0.1
        1.4s  2140.00nm          7.1mb
LPO     86.41 331 iPc   38 11.10   0.1
        1.4s  1780.00nm          7.1mb
GIB     86.48 320 iP    38 10.50  -1.1
TDD     86.88 283 ePd   38 17.00   3.3X
PCO     86.93  42 ePc   38 14.00   0.4
        1.7s  1060.00nm          6.8mb
ATO     87.05  43 eP    38 14.20   0.0
ARO     87.11 283 eP+   38 16.50   1.6
GNZ     87.16 150 eP    38 17.00   2.6
RRO     87.18  44 ePc   38 15.00   0.1
        1.5s   908.00nm          6.8mb
DAF     87.29 283 ePd   38 18.90   3.2X
HLD     87.37 283 ePd   38 19.30   3.3X
PMO     87.52 112 iP    38 19.20   2.6
        1.4s   240.00nm          6.3mb
                ipP   38 28.40  29kmX
OCO     87.59  43 iPc   38 17.80   1.0
TPT     87.70 112 iP    38 19.80   2.4
        1.4s   240.00nm          6.3mb
                ipP   38 29.20  29kmX
VAH     87.87 112 iP    38 20.60   2.4
        1.4s   115.00nm          6.0mb
                ipP   38 30.00  29kmX
AFR     87.98 115 eP    38 22.00   3.2X
        1.4s   180.00nm          6.2mb
RUV     88.01 112 iP    38 21.40   2.5
        1.4s   215.00nm          6.3mb
                ipP   38 30.70  29kmX
SIO     88.01  42 iPc   38 19.10   0.2
MNG     88.01 153 P     38 18.00  -0.5
                pP    38 24.80  21kmX
                PP    41 48.00
                (SKS) 48 44.50
TUL     88.14  42 iPc   38 19.70   0.2
        1.0s  3360.00um          7.6mb
      Z  18s    96.50um          7.3Msz
                eS    48 47.00
PPT     88.14 115 eP    38 22.00   2.4
        1.4s   160.00nm          6.1mb
EPF     88.15 331 iPc   38 18.80  -0.7
        1.6s   720.00nm          6.7mb
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OTT     88.21  24 eP    38 21.00   1.4
        0.7s   170.00nm          6.5mb
AAM     88.23  30 iPc   38 20.50   0.7
                  S     48 47.20
RLO     88.32  41 iP    38 19.50  -0.8
ELF     88.32  28 P     38 20.70   0.5
WEL     88.37 154 P     38 20.10   0.0
SNZO    88.37 154 eP    38 20.00  -0.1
GBO     88.49  41 iPc   38 21.30   0.1
DLA     88.52  29 P     38 22.00   0.8
SLM     88.58  36 ePc   38 21.30  -0.2
MNT     88.73  22 iPc   38 21.80  -0.3
        2.1s  2630.00nm          7.1mb
WLO     88.77  44 ePc   38 08.50 -14.1X
        1.3s  1290.00nm
UTO     88.81  31 iPc   38 32.00   9.4X
CBM     88.84  18 P     38 22.70   0.0
        1.0s     5.00nm          4.7mb X
FVM     89.03  37 ePc   38 23.36  -0.4
PTN     89.18  24 eP    38 24.00  -0.3
RSNY    89.33  23 eP    38 24.60  -0.5
MSZ     89.44 160 P     38 27.20   2.0
RHP     89.50 158 P     38 27.50   1.9
                  eS    41 58.20
LGR     89.66 333 iPc   38 27.60   0.9
                  iPcP  38 29.60
                  iPP   41 58.00
                  iS    49 21.00
BPIL    89.67  36 ePc   38 26.33  -0.4
BHO     89.81  42 iP    38 27.80   0.4
DON     89.92  37 ePc   38 27.29  -0.6
RMB     90.00  37 ePc   38 27.67  -0.6
EBR     90.01 330 eP    38 29.00   0.8
                  ePP   42 02.00
                  eSKS  49 02.00
                  eS    49 22.90
CSIL    90.05  36 ePc   38 28.06  -0.5
NHIL    90.08  36 ePc   38 28.41  -0.2
WDIN    90.14  35 ePc   38 28.65  -0.3
ELC     90.15  37 ePc   38 28.54  -0.4
POW     90.18  38 ePc   38 28.48  -0.6
MIM     90.20  19 P     38 29.40   0.3
JCT     90.22  48 eP    38 27.20  -2.3
      Z  22s    64.80um          7.0Msz
BNH     90.23  21 P     38 29.80   0.5
PGA     90.52  38 eP    38 30.42  -0.3
LST     90.55  37 ePc   38 30.42  -0.4
OLY     90.57  39 eP    38 30.70  -0.2
WCK     90.59  37 ePc   38 30.60  -0.4
INY     90.63  26 iPc   38 31.00  -0.1
ECD     90.83  38 ePc   38 31.84  -0.3
STJ     90.85   8 eP    38 33.00   1.0
        0.9s   262.00nm          6.5mb
GRT     90.90  37 ePc   38 32.22  -0.2
JHP     90.94  38 eP    38 32.60   0.0
BLVT    91.00  23 P     38 33.40   0.6
EMM     91.05  19 P     38 33.30   0.3
OKG     91.24  38 ePc   38 33.49  -0.5
ATX     91.41  46 iPd   38 35.00   0.1
MZX     91.69  57 ePd   38 38.49   2.2
LNX     91.72  23 P     38 36.40   0.2
AAE     91.76 284 eP    38 40.40   3.3X
MRG     91.93  29 iP    38 38.20   1.1
WES     92.25  22 P     38 39.10   0.6
TOL     92.48 332 iP+   38 40.00   0.3
                  iPP   42 23.00
                  e(PPP)44 20.00
                  eSKS  49 17.00
                  iS    49 40.00
                  iPS   51 00.00
                  iSSS  59 33.00
ALI     92.53 329 iP-   38 41.00   1.1
                  iPP   42 19.00
GPD     92.56  25 eP    38 40.40   0.3
PWLA    92.58  37 ePc   38 40.00  -0.2
HKT     92.80  45 iPc   38 41.70   0.5
                  e     42 25.00
                  e     08 03.50
PTO     92.84 336 iPc   38 41.30   0.0
                  iPP   42 26.00
                  iS    49 18.00
                  iPS   50 54.00
RSCP    93.16  35 ePc   38 42.90   0.0
NAV     93.64  31 eP    38 45.30   0.2
BLA     93.88  31 iP+   38 48.00  -0.2
      Z  20s    43.40um          6.9Msz
                  eS    49 20.40
CVL     93.93  29 eP    38 46.90   0.5
NA12    94.14  28 eP    38 47.40   0.1
ALM     94.59 330 iPd   38 50.40   1.0
        1.7s     5.20nm          4.7mb X
                  iPP   39 18.50
                  iPPP  39 24.90
                  iS    42 38.90
LIS     95.22 336 iPc   38 52.80   0.5
MAL     95.42 331 iP+   38 53.00  -0.2
                  iPP   42 46.00
JSC     96.11  33 eP    38 56.50   0.1
IIC     98.69  54 eP    39 10.10   1.4
CRX     98.70  55 eP    39 10.20   1.5
IIM     99.07  54 iP    39 10.80   0.5
IIP     99.21  54 eP    39 12.70   1.6
NAI    100.06 277 iPdiff39 17.00   2.1
        2.1s   333.00nm          6.5mb
                  iS    52 09.00
LJX    100.14  53 ePdiff39 15.20  -0.1
ACX    100.50  57 ePdiff39 16.30   1.8
NPA    107.12 265 ePKP  44 13.00  17.5X
DRV    107.67 180 ePdiff39 50.00   2.8X
BNG    109.33 294 iPdiff39 57.00   1.1
        2.0s    20.00nm
TET    112.05 268 ePKP  44 10.00   5.2X
        1.9s     0.19nm
                  i     44 50.00
                  iPKKP 55 05.00
MIR    113.20 198 ePKP  44 07.00   1.5
      Z  20s    23.50um          6.8Msz
      N  20s    15.00um
      E  20s     8.80um
                  iPS   54 32.00
MTD    113.94 268 ePKP  44 09.00   0.4
                  iPP   44 57.00
                  iPKKP 55 00.00
                  i     02 41.00
KRI    115.45 270 ePKP  44 12.00   0.5
                  iPP   45 12.00
                  iPKKP 54 51.00
SJG    116.39  27 ePKP  44 05.00  -8.1X
      Z  20s    43.30um          7.1Msz
BUL    118.21 267 iPKPd 44 17.00   0.3
      Z  19s    29.90um          6.9Msz
      N  19s    24.30um
      E  19s    22.90um
                  iPP   45 30.00
                  iPKKP 54 35.00
                  i     02 09.00
CNG    119.10 259 iPKP  44 19.00   1.0
        0.9s    40.00nm
                  iPP   45 39.00
JOZ    119.83 258 iPKPc 44 17.00  -2.4
SBA    120.12 173 ePKP  44 18.90   0.4
EVA    121.53 261 ePKP  44 24.00   1.1
                  e     45 58.00
SLR    121.69 262 iPKPc-44 21.90  -1.3
        0.6s   200.00nm
      Z  22s    88.90um          7.4Msz
                  i     44 25.60
PRE    121.77 262 ePKP  44 25.00   1.7
KIC    122.12 316 ePKP  44 23.20  -0.9
BPI    122.13 262 ePKP  44 22.80  -1.3
        0.9s   103.00nm
TOV    122.60  34 ePKP  44 21.50  -3.6X
MAW    122.62 206 ePKP  44 25.00   1.6
PRY    122.96 262 iPKPc 44 27.00   1.4
UAV    123.06  36 ePKP  44 30.50   4.3X
BFS    123.45 262 e(PKP)44 25.00  -1.5
        0.5s    37.00nm
FUO    124.59  41 ePKP  44 29.00  -0.3
SWZ    124.70 263 iPKPc 44 28.00  -1.0
BLF    125.09 260 iPKPc 44 30.00   0.3
BOG    125.15  42 iPKP  44 31.50   1.0
KIM    125.95 261 ePKP  44 30.40  -1.0
        0.9s    91.00nm
                  i     46 27.00
PSO    126.32  47 ePKP  44 32.50  -0.4
HVD    126.38 259 iPKPc 44 35.00   2.8X
        1.2s    42.00nm
                  i     46 31.00
GRM    126.95 255 iPKPc 44 34.50   1.5
        0.9s   118.00nm
      Z  20s    44.50um          7.1Msz
SUR    130.73 260 iPKPd 44 41.70   1.2
        1.5s   289.00nm
      Z  18s    75.30um          7.4Msz
SYO    131.22 208 ePKP  44 40.00   0.1
CER    132.32 259 iPKPc 44 39.50  -3.7X
TUH    132.40 259 ePKP  44 40.50  -2.8X
NNA    137.09  57 ePKP  44 37.00 -15.8X
        1.0s    20.00nm
HUA    138.09  56 ePKP  44 48.00  -7.2X
NVL    140.52 205 ePKP  44 51.00  -6.3X
                  ipPKP 44 59.00
                  isPKP 45 06.00
                  iPP   47 59.00
ARE    143.84  56 iPKPd 45 02.50  -2.6X
ZOBO   145.73  51 iPKPc 45 08.30  -0.4
LPB    145.95  52 PKPc+ 45 09.50   0.6
ITR    147.48 355 e(PKP)45 10.00  -0.9
                  i     45 12.40
SOB1   148.00 360 ePKP  45 11.60  -0.1
                  e     45 13.90
ANT    149.74  64 iPKP  45 16.50   2.4
BAO    153.66  16 PKP   45 21.00   0.8
SLA    153.69  59 e(PKP)45 20.00  -0.1
VCA    154.48  69 ePKPd 45 22.80   1.7
LNV    154.84  83 ePKP  45 22.50   1.4
                  e     45 32.50
PEL    155.02  81 iPKPc 45 20.70  -0.8
TACH   155.06  82 iPKP  45 19.50  -2.0
SAN    155.18  81 ePKPd 45 22.00   0.4
BACH   155.26  81 ePKP  45 24.50   2.7X
FCH    155.40  81 iPKPd 45 23.00   0.6
CHCH   155.40  82 iPKPd 45 23.00   1.0
CEN    155.67  75 ePKP  45 28.00   5.5X
TCA    158.53  70 ePKPc 45 25.50  -0.5
VAO    161.02  17 ePKP  45 29.20   0.3
                  e     45 40.80
                  e     46 14.50
BMA    161.21   9 ePKP  45 31.20   2.2
                  e     46 15.20
RDJ    161.51   7 iPKP+ 45 30.80   1.6
VBA    163.47  85 iPKPd 45 31.50   0.7
LPA    165.16  70 iPKP+ 45 33.20   0.8
      Z  21s    53.00um
      S.D. = 1.2  on 589 of 664 obs.

   JUN  24, 1983  09h 06m 45.44± 0.21s
   24.205 N ± 1.4km  122.446 E ± 1.4km
   DEPTH =  41.7 ±  1.9 km
   6.2mb ( 93 obs.)  6.7Msz ( 37 obs.)
 TAIWAN REGION                        (243)
      Felt on Taiwan. Felt (III JMA)
      on Iriomote-jima and (II JMA) on
      Ishigaki-shima and Yonaguni-
      jima, Ryukyu Islands.
TWC      0.68 307 iPd   06 59.80   1.2
TWD      0.79 261 iPc   06 59.80  -0.4
                  eS    07 13.00
TWZ      1.19 319 iPc   07 07.50   1.6
                  eS    07 27.50
ANP      1.29 319 iPc   07 08.90   1.5
TWF1     1.35 231 iPd   07 06.40  -1.8
                  eS    07 25.00
ISI      1.58  85 P+    07 12.20   0.9
                  iS    07 30.90
TWG      1.87 223 iPd   07 12.80  -2.7
MYK      2.65  77 eP    07 29.20   2.6
                  iS    07 57.70
QZH      3.58 283 iPn   07 39.90  -0.1
KMJ      4.48  61 iPd   07 55.40   2.7
                  iS    08 47.50
NAH      5.15  66 P     08 03.70   1.6
                  S     09 03.60
NGO      5.54  63 Pd    08 09.20   1.6
                  S     09 10.70
SSE      6.95 351 P+    08 27.00  -0.4
      Z  13s  2600.00um
      N  10s   500.00um
                  i     08 35.00
                  i     09 10.00
                  Lg    10 36.00
NZJ      7.57  55 eP    08 37.00   0.9
                  S     10 13.00
HKC      7.84 258 iP    08 40.50   0.7
                  iS    10 11.00
BAG      7.95 193 iPd-  08 37.90  -3.6X
MVI      8.13  77 eP    08 41.00  -2.9
                  S     10 12.20
GZH      8.42 264 eP    08 47.40  -0.4
NJ2      8.43 339 iPc   08 47.50  -0.5
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24d 09h

			S	10	20.50			GUA	23.72	113	eP	11	54.70	0.0		0.8s	134.00nm		5.8mb
MCO	8.44	258	iP	08	47.40	-0.7			1.2s	863.00nm			6.1mb				eS	20	10.00
			iS	10	19.50			Z	18s	159.00um			6.5Msz		MGD	40.94	21	ePc	14	22.30	-3.0X
WHN	9.57	313	eP	09	02.00	-1.7					e(S)	16	15.00			1.1s	50.00nm		5.2mb X
			S	10	51.50			GTA	24.39	314	iPc	12	02.00	0.8	Z	20s	218.00um		7.0Msz
MAN	9.58	188	eP	09	00.00	-3.9X					iS	16	24.00		N	20s	149.00um		
QCP	9.60	188	iP	09	08.00	3.8X		SAP	24.41	35	eP	12	03.00	1.9	E	20s	64.00um		
TAJ	10.00	48	iP+	09	16.50	7.0X					eS	16	07.00				ePP	16	07.00
			iS	11	21.00			YSS	27.94	30	eP	12	32.30	-1.5			iPPP	16	29.00
FKJ	10.16	32	P+	09	14.90	3.2X			1.0s	210.00nm			5.8mb				eS	20	37.00
			S	11	19.50			Z	16s	102.00um			6.5MszX				iSSS	24	00.00
KAG	10.26	43	eP	09	17.00	3.9X		N	16s	85.00um					PMG	41.21	141	eP+	14	28.00	0.0
			eS	11	25.00			E	16s	84.00um					LMG	41.39	140	eP	14	30.50	0.9
NGS	10.71	36	P+	09	22.60	3.3X					ePP	13	12.00		TLG	41.45	309	iPc	14	31.90	2.1
			eS	11	40.00						ePPP	13	37.00		Z	14s	67.00um		6.7MszX
MYZ	11.04	44	eP	09	34.00	10.3X		AAI	28.28	168	ePd	12	35.90	-1.2			ePP	16	13.00
			eS	11	45.00				0.9s	236.00nm			5.9mb				iS	20	43.00
LGP	11.06	173	iPd	09	20.50	-3.5X		LSA	28.38	288	iPc	12	39.50	1.0	HYB	41.45	269	ePc	14	30.50	0.4
KUM	11.23	38	Pd	09	32.40	6.0X		IPM	28.39	230	ePc	12	37.20	-1.0		1.6s	500.00nm		6.0mb
SAG	11.34	36	Pd	09	33.50	5.7X			1.0s	50.60nm			5.1mb X		SEM	41.74	320	iPc	14	31.60	-0.4
			e	11	08.00						e	13	05.30			0.9s	1490.00nm		6.7mb
IZU	11.62	29	P	09	35.00	3.5X					e	15	49.80				ePP	16	10.50
			eS	11	55.00						e	19	29.90				eS	20	48.00
FKK	11.64	35	P+	09	34.60	2.8		MKS	29.39	186	iPc	12	46.00	-1.1	KSH	41.84	303	iPc	14	36.00	2.8
			eS	11	53.00			ZAK	30.07	335	iPc	12	51.20	-1.7	NRN	42.11	306	iPd	14	36.00	0.4
NOB	11.65	42	eP	09	37.00	5.0X			3.4s	2460.90nm			6.4mb X				eS	20	53.00
			eS	11	58.00			N	16s	145.00um					NVS	42.11	327	iPc	14	33.80	-1.1
CNP	11.82	169	ePd	09	33.80	-0.6		E	15s	138.00um						1.6s	******nm		7.4mb X
OIT	12.07	40	Pd	09	43.50	5.9X					eS	17	48.00		FRU	43.35	307	iPc	14	46.00	0.6
			eS	11	54.00			TSI	30.89	232	ePc	13	01.50	1.1		1.2s	760.00nm		6.3mb
SHN	12.22	35	ePd	09	43.00	3.3X		IRK	31.25	338	ePc	13	01.50	-1.8	Z	19s	78.00um		6.6Msz
TIA	12.82	340	eP	09	46.40	-1.2			2.8s	1310.00nm			6.2mb		N	19s	54.00um		
			pP	09	58.50			Z	14s	338.00um			7.2MszX		E	18s	71.00um		
			S	12	13.00			N	13s	171.00um							isP	15	03.00
PLP	13.19	169	iPc	09	51.30	-1.3		E	12s	77.40um							ePP	17	00.00
			eS	10	12.00						esP	13	16.00				eS	21	12.00
HIR	13.35	38	eP	09	59.00	4.4X					eS	18	05.00				esS	21	24.00
			e	12	38.00			JAY	31.95	144	ePd	13	10.00	0.3			iScS	24	46.00
HMD	13.54	36	Pd	10	02.00	4.9X		PPI	32.53	224	eP	13	14.70	-0.1	SEY	43.55	19	iPc	14	44.80	-1.8
			eS	12	39.00				1.5s	290.00nm			5.9mb		Z	18s	138.00um		6.9Msz
SHK	13.61	39	eP	09	57.10	-0.9		TRT	33.13	198	iPd	13	20.10	0.2	N	17s	103.00um		
MTS	14.50	37	Pd	10	14.20	4.5X			0.9s	218.00nm			6.0mb		E	18s	87.00um		
			eS	13	08.00			PKI	33.41	284	eP	13	22.40	-0.4			isP	15	02.00
TOT	15.17	39	eP	10	16.00	-2.4		KKN	33.51	284	eP	13	23.40	-0.2			ePP	16	31.30
			eS	13	46.00				1.0s	640.00nm			6.5mb				iPcP	16	35.20
KOB	15.22	44	eP	10	30.00	10.9X		DMN	33.68	284	eP	13	24.80	-0.2			eS	21	05.80
			e	13	48.00			WMO	34.48	313	P	13	31.00	-0.5	GBA	43.70	264	Pc	14	48.20	-0.2
OSA	15.43	44	eP	10	30.00	8.2X		TZZ	34.54	146	eP	13	32.00	-0.3		0.8s	46.40nm		5.3mb
OSK	15.48	45	eP	10	30.00	7.5X		MOM	35.62	134	eP	13	42.00	0.6	PAA	44.24	129	eP	14	53.00	0.1
			eS	13	24.00			SKR	37.04	36	eP	13	51.00	-2.0	ANR	44.75	304	iPc	14	57.50	0.8
CGP	15.81	172	ePc	10	24.00	-2.8			0.7s	60.00nm			5.6mb			1.2s	1100.00nm		6.6mb
TIY	15.95	330	eP	10	30.80	2.2		Z	22s	125.00um			6.7Msz		Z	18s	60.00um		6.6Msz
BJI	16.65	343	iPc	10	39.00	1.7		N	22s	74.20um					N	16s	33.00um		
			eS	14	03.00			E	22s	73.60um					E	16s	80.00um		
			Lg	16	00.00						ePP	15	12.00				eS	21	35.50
HJJ	17.60	56	eP	10	55.00	5.8X					eS	19	28.00				iSPP	21	51.50
			eS	14	20.00			MDG	37.07	139	eP	13	55.00	1.4	KHO	45.17	299	iPc	15	01.00	0.7
CD2	17.85	296	iPc	10	52.50	0.0		MTN	37.79	166	eP	13	57.00	-2.6		4.0s	9000.00nm		7.0mb X
			S	14	12.00			YAK	38.12	6	iPc	13	59.20	-2.7	N	15s	40.00um		
KMI	17.94	277	iP-	10	53.00	-0.7			1.0s	700.00nm			6.5mb		E	15s	32.00um		
	E 12s	115.00um						Z	12s	103.00um			6.9MszX				eS	21	40.90
			iS	14	17.00						iPP	15	29.10		WRA	45.39	164	Pc	15	04.00	2.2
CBI	18.02	77	eP	10	56.00	1.5					iPcP	16	19.10			0.8s	153.00nm		5.9mb
			eS	14	21.00						iS	19	53.10		WB2	45.39	164	iPd	15	00.90	-0.9
OSH	18.08	51	eP	10	55.00	-0.2					esS	20	05.10				eS	21	08.80
MAT	18.30	44	eP+	10	55.00	-2.9					iScS	24	07.30				eP'P'	46	22.30
	0.7s	44.50nm				4.7mb X		KVG	38.31	130	eP	14	05.00	0.9	POO	45.43	273	iPc	15	03.00	0.6
			eS	14	21.00			LAT	38.91	139	eP	14	10.00	0.9	GAR	46.19	302	iPc	15	08.00	-0.2
OYM	18.34	49	eP	10	58.20	-0.2		PET	39.64	34	eP	14	13.00	-1.7		3.5s	3500.00nm		6.7mb X
SRY	18.46	48	eP	10	58.50	-1.4			1.5s	300.00nm			5.9mb		Z	16s	18.00um		6.1MszX
DDR	18.63	47	eP	10	58.50	-3.4X		Z	19s	88.00um			6.6Msz				eS	21	42.50
TOK	18.84	49	eP	10	58.00	-6.4X		N	19s	30.00um					KUL	46.59	300	iPc	15	11.70	0.4
HHC	18.94	334	P	11	07.00	1.3		E	19s	85.00um						3.9s	7400.00nm		7.0mb X
KKW	19.02	199	ePd	11	05.10	-1.8					eS	20	16.00		Z	19s	80.20um		6.7Msz
	1.0s	237.00nm				5.4mb					esS	20	35.00		N	14s	31.00um		
BTO	19.39	330	iPc	11	11.00	0.1		ELT	39.76	326	iPc	14	15.30	-0.3	E	16s	44.60um		
CN2	19.70	6	iPc	11	13.40	-0.8			3.0s	1450.00nm			6.3mb				iPcP	16	45.40
LZH	19.94	311	iPc	11	18.00	1.1		N	13s	21.30um							iPP	17	05.20
VLA	20.41	20	iPd	11	21.00	-0.5		RAB	40.42	130	iPd+	14	24.70	3.1X			iS	22	00.70
			iPP	11	37.00			PRZ	40.55	308	eP	14	24.00	1.4	NAU	46.96	189	eP	15	14.00	-0.1
			iPcP	15	31.00				1.2s	1010.00nm			6.5mb		TAS	47.11	305	ePc	15	16.60	1.3
MDJ	21.18	14	Pc	11	28.00	-1.4		Z	22s	68.40um			6.5Msz			2.5s	5000.00nm		7.0mb
MIY	22.54	42	eP	11	38.00	-5.0X		N	22s	55.20um					Z	26s	68.00um		6.5MszX
			eS	15	48.00			E	22s	66.00um					N	16s	59.00um		
GUMO	23.66	112	eP	11	54.70	0.7					ePcP	16	20.00		E	12s	40.00um		
PJG	23.66	112	eP	11	54.50	0.4					eSSS	23	55.00				esP	15	34.00
			(TT)	30	40.90			NDI	40.56	286	iPc	14	23.00	0.4			ePP	17	09.60

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                ePPP  17 48.60
                eS    22 06.60
                eScS  25 08.60
DSH    47.38 301 iPc   15 18.50   1.0
       2.5s  1500.00nm          6.5mb
     Z  18s    55.00um          6.6Msz
     N  18s    46.00um
     E  18s    56.00um
                iPP   17 12.00
                eS    22 12.50
TIK    47.60   3 ePc   15 16.00  -2.7
     Z  17s   390.00um          7.4MszX
     N  17s   250.00um
     E  14s    41.00um
                epP   15 23.00  23kmX
                esP   15 31.00
                ePcP  16 47.00
                eS    22 02.00
ISQ    47.65 158 eP    15 19.00  -0.8
SAW    48.79 302 iPc   15 29.00   0.6
       3.5s  8500.00nm          7.2mb X
     N  19s    67.00um
     E  19s    59.00um
                iPP   17 26.80
                iS    22 32.20
                isS   22 50.60
                eSS   25 54.20
ASPA   48.87 166 iPd   15 28.50  -0.6
SVO    49.29 128 P     15 38.00   5.5X
HNR    49.58 128 eP    15 36.00   1.3
                e     22 40.00
NRI    49.60 345 eP    15 30.30  -3.9X
       3.4s   980.00nm          6.3mb X
     Z  17s   140.00um          7.0MszX
     N  17s    65.00um
     E  17s   119.00um
                esP   15 45.00
                ePcP  16 55.00
                ePP   17 25.00
                ePPP  18 18.00
                eS    22 36.00
CTA    49.76 150 iPd   15 35.60  -0.4
       1.7s   506.00nm          6.3mb
                iS    22 44.00
                i     26 28.00
                i     31 18.00
CTAO   49.76 150 eP    15 35.50  -0.5
WBN    50.21 175 iPc   15 39.40   0.1
MEK    50.66 185 iPc   15 41.20  -1.6
ADK    53.46  42 eP    16 02.00  -1.4
KLG    54.68 181 eP    16 12.00  -0.6
SVE    54.71 324 iPc   16 11.50  -1.1
       3.7s  3540.00nm          6.8mb X
     Z  17s    84.00um          6.9MszX
     N  17s    22.00um
     E  17s    70.00um
                ePcP  17 14.70
                eS    23 53.00
                eSP   23 57.00
BAL    54.78 186 eP    16 13.00  -0.3
MHI    54.85 2[illegible] iPc   16 15.00   0.9
       1.0s   420.00nm          6.4mb
                eS    23 56.00
ASH    55.60 300 P     16 20.00   0.7
       1.5s  2200.00nm          7.0mb
                esP   16 36.00
                ePcP  17 20.00
                ePP   18 30.00
                ePPP  19 44.00
                eS    24 06.00
                eScS  26 07.50
ARU    55.76 323 eP    16 18.70  -1.5
       1.5s   500.00nm          6.3mb
     Z  16s    34.50um          6.5MszX
     N  16s    29.00um
     E  16s    38.00um
                ePcP  17 17.00
                iPP   18 32.70
                ePPP  19 44.00
                eSP   24 13.00
                eScS  26 03.00
VAN    55.79 300 ePc   16 21.00   0.3
     Z  20s    49.00um          6.6Msz
     E  19s    52.00um
                ipP   16 32.50  39kmX
                eS    24 10.00
                eScS  26 10.00
KHI    55.80 296 ePc   16 20.80  -0.3
MUN    56.18 186 eP    16 25.00   1.5
ILT    56.21  23 iPd   16 21.20  -2.1
       1.0s   150.00nm          6.0mb
     Z  16s    82.00um          6.9MszX
     N  16s    57.00um
     E  16s    30.00um
                ipP   16 31.50  34kmX
                iPcP  17 22.00
                iPP   18 27.50
                iS    24 12.00
                eScS  26 04.00
NWAO   57.03 185 iPd   16 29.10  -0.4
NKI    58.31  42 P     16 38.00  -0.3
STK    58.70 161 eP    16 40.00  -1.2
KOU    60.32 134 iPd   16 54.50   2.0
ANM    60.77  28 eP    16 53.00  -2.1
ADE    60.83 165 eP    16 56.30   0.4
       1.2s   406.00nm          6.4mb
PVC    61.15 129 iPc   17 07.50   9.3X
COO    61.35 151 eP    17 01.00   1.5
SHI    61.73 292 iPc   17 01.50  -0.9
BAK    61.81 304 iPd   17 04.00   1.5
       4.0s   *******nm          7.3mb X
                iS    25 31.00
KHE    62.16 350 iPc   17 03.00  -1.4
       1.6s   420.00nm          6.3mb
     Z  14s   220.00um          7.5MszX
     N  14s    62.00um
     E  14s   120.00um
                ipP   17 11.00  26kmX
                ePP   19 20.00
                ePPP  20 48.00
                eS    25 14.00
                eSS   29 20.00
NOU    62.98 134 iPc   17 10.80   0.4
YOU    63.17 156 eP    17 10.90  -0.6
                i     19 44.50
RIV    63.85 154 eP    17 19.00   3.1X
BFD    63.92 162 eP    17 17.00   0.6
CAN    64.32 156 eP    17 18.20  -0.9
                e     19 56.90
GRO    64.44 308 iPc   17 20.00   0.2
       1.5s   750.00nm          6.5mb
     Z  16s    37.00um          6.7MszX
KRV    64.45 305 iPc   17 20.00   0.0
       1.0s   690.00nm          6.7mb
GRS    64.67 304 iPc   17 27.80   6.2X
       6.0s  6900.00nm          6.9mb X
     Z  17s    21.00um          6.4MszX
     N  17s     9.70um
     E  17s    31.60um
                iPP   19 50.40
                iPPP  21 12.40
                iS    26 02.40
                iSP   26 16.60
                eSS   30 15.00
TAB    64.96 302 iP+   17 25.00   1.5
WAM    65.06 157 eP    17 23.00  -0.8
                e     19 46.90
KER    65.15 298 eP    17 26.00   1.2
TOO    65.16 160 eP    17 25.00   0.6
MTA    65.39 306 iPc   17 26.00   0.1
     Z  18s    24.00um          6.4Msz
     N  18s    12.00um
     E  18s    12.50um
                esP   17 40.20
                iSP   26 22.60
IMA    65.67  26 eP    17 26.30  -1.3
       1.1s    14.20nm          4.9mb X
                epP   17 59.00 135kmX
ERE    65.91 305 iPc   17 30.00   0.5
                iS    26 18.00
PYA    66.19 309 iPc   17 31.00  -0.1
       3.0s  1500.00nm          6.5mb
     Z  22s    45.00um          6.6Msz
     N  22s    33.60um
     E  22s    45.00um
                ipP   17 42.00  36kmX
                iPP   20 00.00
                iPPP  21 40.00
                iPPS  26 52.00
LEN    66.28 306 iPc   17 33.00   1.1
       4.2s  9500.00nm          7.2mb X
     Z  20s    61.90um          6.8Msz
     N  20s    25.90um
     E  20s    20.30um
                iPcP  18 00.00
                iS    26 26.00
BKR    66.32 307 iP    17 32.80   0.6
       1.3s   600.00nm          6.5mb
                iPP   20 05.80
                iS    26 24.80
                iSSS  33 37.80
KDC    67.28  35 eP    17 36.80  -0.9
MOS    67.49 322 iPc   17 37.00  -2.1
       6.0s  7100.00nm          6.9mb X
     Z  12s    17.70um          6.5MszX
     N  13s     9.10um
     E  14s    25.90um
                iPcP  17 59.00
                ePP   20 07.00
                ePPP  21 46.00
                eS    26 29.00
                ePS   26 59.00
                eSSS  33 52.00
APA    67.55 335 iPd   17 38.70  -0.6
       1.2s   280.00nm          6.2mb
     Z  18s    86.00um          7.0Msz
                ipP   17 50.30  39kmX
                iPcP  18 05.80
                ePP   20 06.00
                iPPP  21 39.00
                eS    26 31.00
                iSP   26 46.00
                ePPS  27 07.00
                eSS   30 46.00
MSL    67.81 301 eP    17 41.20  -0.3
OBN    68.17 322 iPc   17 41.30  -2.0
       1.8s   540.00nm          6.3mb
     Z  20s    55.00um          6.8Msz
     N  20s    33.50um
     E  20s    38.50um
                eS    26 38.00
COL    68.26  27 eP    17 42.00  -1.8
     Z  18s    38.80um          6.7Msz
                eS    26 44.00
FBA    68.26  27 P     17 43.00  -0.8
PMR    68.28  31 ePd   17 43.20  -0.7
PME    68.32  31 eP    17 42.10  -2.1
       1.1s    54.00nm          5.5mb
     Z  20s    30.00um          6.5Msz
                epP   18 12.00 121kmX
SOC    68.65 309 iPc   17 45.50  -1.1
       5.0s  6500.00nm          6.9mb X
     E  17s    45.00um
                iPcP  18 14.00
                eS    26 46.00
VUN    68.87 122 eP    17 50.70   2.4
KEV    69.39 338 iP+   17 47.00  -3.6X
       1.0s   126.00nm          5.9mb
                ePP   20 20.00
                ePPP  22 00.00
                epPPP 23 04.00
                eScS  26 52.00
                eSS   31 40.00
ANN    70.02 311 iPc   17 53.00  -1.9
                eScS  27 48.00
SOD    70.12 336 iP    17 53.00  -2.1
PUL    70.46 328 iPc   17 56.00  -1.3
       4.0s  3800.00nm          6.7mb X
     Z  18s   110.00um          7.2Msz
     N  20s    14.00um
     E  18s    90.00um
                epP   18 03.50  24kmX
                iPcP  18 23.00
                iPPP  22 15.00
                iS    27 04.00
                ePS   27 42.00
                eSPP  27 47.00
KJF    70.51 332 iP+   17 56.80  -0.7
       0.8s   103.00nm          5.9mb
                ePP   20 36.00
                epPP  22 12.00
                epPPP 23 24.00
                eScS  27 04.00
                eSS   31 52.00
                eSSS  35 32.00
SUF    71.60 331 iP    18 04.10   0.0
       1.0s   232.00nm          6.1mb
SIM    72.18 312 iPc   18 07.00  -1.0
       8.0s  6000.00nm          6.6mb X
     Z  22s    29.10um          6.5Msz
     N  22s    26.20um
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     E  22s    36.30um
               iPcP  18 28.00
               ePPP  22 36.00
               eScS  28 08.00
KIR    72.24 337 iP    18 02.20  -5.7X
HON    72.43  74 P     18 16.00   6.2X
INK    72.79  22 eP    18 09.00  -2.1
       0.9s   113.00nm          5.8mb
PCA    72.86  31 eP    18 12.30   0.5
NUR    72.96 329 iP    18 11.20  -1.0
       1.1s   187.00nm          6.0mb
     Z  18s    95.90um          7.1Msz
               epPP  22 36.00
               epPPP 24 00.00
               eS    27 28.00
               eSP   28 20.00
               eSS   33 00.00
MBC    72.99  13 eP    18 10.00  -2.2
       0.5s    28.00nm          5.5mb
KIS    75.03 315 iPc   18 24.00  -0.5
       5.0s  6000.00nm          6.8mb X
     Z  17s    27.70um          6.6MszX
     N  16s    18.60um
     E  18s    20.50um
               iPcP  18 38.00
               iS    28 08.00
JER    75.47 298 ePc   18 28.00   0.6
TDD    75.81 277 eP    18 31.00   1.6
ARO    75.96 276 eP    18 20.20 -10.2X
CFR    76.12 313 ePd   18 30.00  -0.7
CLI    76.21 315 ePc   18 31.00  -0.2
DAF    76.22 277 eP    18 33.50   1.7
GPA    76.32 308 iP    18 31.70  -0.3
SIT    76.36  33 eP    18 31.50  -0.3
TLB    76.41 313 ePc   18 32.00  -0.3
UPP    76.46 330 iPc   18 31.20  -1.1
       1.0s  5200.00nm          7.5mb X
               iPP   21 25.00
               iS    28 01.00
               i     28 04.00
DAG    76.54 351 iPd   18 31.70  -0.8
       1.1s    81.00nm          5.6mb
               i     21 27.00
               i     29 15.00
HRT    76.59 309 iP    18 33.40  -0.1
VRI    76.82 314 ePc   18 34.00  -0.6
ALT    76.89 307 iPc   18 34.20  -1.1
YLV    76.89 309 iP    18 35.40   0.2
ISK    76.94 309 iP    18 35.90   0.5
LVV    77.05 319 iPc   18 35.40  -0.4
       6.0s  8700.00nm          7.0mb X
     Z  18s    36.80um          6.7Msz
     N  18s    26.00um
     E  18s    26.00um
               iPcP  18 41.00
               iPP   21 29.00
               iPPP  23 19.00
               iS    28 21.00
               iSKS  28 35.00
               iPS   29 07.00
               iSS   33 20.00
BCK    77.09 305 eP    18 35.30  -1.1
ISR    77.20 314 ePd   18 38.00   1.2
MLR    77.46 314 iPd   18 41.00   2.6
DMK    77.58 310 eP    18 38.00  -0.9
DST    77.77 308 eP    18 38.70  -1.3
BUC1   77.83 313 iPc   18 36.20  -4.0X
ELL    77.85 305 iP    18 39.10  -1.6
EDC    78.04 309 eP    18 41.00  -0.5
HFS    78.11 331 (P)   18 40.60  -0.8
       1.2s   191.00nm          6.0mb
CMP    78.14 314 ePc   18 41.00  -0.9
MFT    78.29 309 iP    18 42.40  -0.6
CJR    78.51 316 eP    18 45.10   1.1
UZH    78.56 318 ePc   18 44.50   0.4
       2.0s  1200.00nm          6.5mb
               isP   19 01.00
               iPP   21 40.00
               iPPP  23 40.00
               iSKS  28 51.00
               iScS  29 00.00
COZ    78.57 315 iPd   18 45.50   1.0
NB2    78.74 332 P     18 45.00   0.1
       1.1s   141.00nm          5.9mb
PVL    78.86 312 iPc   18 46.00   0.1
YER    78.92 306 iPc   18 45.50  -1.0
DIM    79.00 311 eP    18 47.00   0.3
IZM    79.20 307 iP    18 46.50  -1.4
EZN    79.33 309 iPc   18 47.00  -1.5
KRA    79.38 320 ePc   18 47.70  -0.9
       0.8s   136.00nm          5.9mb
     Z  16s    40.10um          6.9MszX
     N  16s    31.50um
     E  16s    32.30um
               i     18 50.80
               i     18 55.70
               e     20 20.00
               e     21 50.00
               iS    28 58.00
KRP    79.39 140 eP    18 49.00   0.3
SPC    79.57 319 iP    18 50.00   0.2
               i     19 07.00
               e(PP) 21 49.40
               e(S)  29 20.70
CLO    79.67 315 ePc   18 51.00   0.7
JOS    79.68 319 e(P)c 18 51.00   0.8
MSZ    80.14 149 eP    18 52.20  -0.3
PSZ    80.32 318 ePc   18 54.00   0.3
VTS    80.41 312 iPc   18 55.00   0.8
SSR    80.44 315 iP    18 55.00   0.6
AAE    80.63 276 eP    18 56.70   0.4
SRS    80.74 311 ePd   18 55.60  -0.4
RHP    80.76 147 P     18 58.10   2.1
OUR    80.79 310 ePd   18 57.00   0.8
COP    80.85 327 iPc   18 56.00  -0.2
       0.8s    89.60nm          5.8mb
               iS    29 15.00
SOH    81.03 311 ePc   18 58.00   0.4
BUD    81.04 318 ePc   18 58.00   0.6
KSP    81.13 322 iPc   18 57.50  -0.3
       1.5s   295.00nm          6.0mb
PAIG   81.16 310 ePd   18 58.80   0.6
MNG    81.17 142 eP    18 57.50  -0.6
               pP    19 16.00  67kmX
               ePP   22 04.00
WEL    81.22 143 eP    18 52.00  -6.3X
     Z  18s    31.60um          6.7Msz
     N  18s    20.60um
     E  20s    19.90um
               PP    22 20.00
               SKS   29 06.00
               (S)   30 04.00
               PS    34 00.00
               SS    35 02.00
               SSS   40 42.00
SRO    81.32 319 iP    18 59.10   0.2
     Z  18s    27.40um          6.7Msz
               e(S)  29 08.50
GNZ    81.33 139 eP    18 59.00   0.0
VAY    81.36 311 eP    18 58.30  -0.9
THE    81.37 311 eP    19 00.00   0.7
               eS    29 18.00
GRG    81.63 311 ePc   19 00.20  -0.5
SKO    81.86 312 iPc   19 02.00   0.2
               iS    29 28.00
               iSS   34 50.00
ZST    81.87 319 eP    19 01.50  -0.3
               i     19 19.50
               e     21 47.70
               e(S)  29 42.10
LIT    81.92 310 ePd   19 01.30  -0.9
BRN    82.07 324 ePc   19 03.50   0.9
VKA    82.31 320 ePc   19 04.50   0.4
       4.1s  5230.00nm          6.9mb X
               ePP   22 04.70
               (sS)  29 20.00
BRG    82.42 323 iPc+  19 04.40  -0.2
       3.0s  1020.00nm          6.3mb
     Z  18s    63.00um          7.0Msz
     N  18s    20.00um
     E  18s    43.00um
               eSKS  29 21.00
YKA    82.50  23 eP    19 06.50   1.7
RSNT   82.52  23 eP    19 03.70  -1.1
PRU    82.52 322 iPc   19 05.00  -0.1
       2.7s   772.00nm          6.3mb
     Z  19s    37.50um          6.8Msz
     N  24s    34.30um
     E  17s    30.00um
               e     19 34.00
               S     29 20.00
YKC    82.56  23 eP    19 04.00  -1.1
       1.0s   131.00nm          5.9mb
OHR    82.66 312 iP    19 05.10  -1.0
CLL    82.73 323 iPc   19 05.60  -0.5
       3.1s  1200.00nm          6.4mb X
               eSKS  29 21.00
               e     48 57.00
HAM    83.24 326 iPc   19 09.80   1.1
PHC    83.40  37 eP    19 10.00   0.4
       1.0s   161.00nm          6.1mb
KHC    83.49 321 iP    19 05.60  -4.6X
     Z  16s    15.70um          6.5MszX
     N  16s     8.30um
     E  16s    12.60um
               i     19 11.00
               e     19 38.00
               e     22 25.50
               S     29 30.00
KMR    83.69 320 iP+   19 11.80   0.6
MOX    83.82 323 iPc+  19 12.00   0.2
       3.8s  2940.00nm          6.7mb X
     Z  15s    42.30um          6.9MszX
     N  16s    83.00um
     E  22s    30.30um
               ePP   22 28.00
               eS    29 40.00
               eSS   35 40.00
WET    83.88 322 eP    19 11.40  -0.7
       2.8s  1290.00nm          6.5mb
               eS    29 34.00
LJU    84.44 318 ePc   19 15.00   0.0
               eS    29 34.00
AVY    84.46 247 ePc   19 16.00   0.3
GRF    84.53 323 iPc   19 16.40   1.0
       1.7s   529.00nm          6.4mb
     Z  19s    35.00um          6.8Msz
               e     19 44.60
               ePP   22 31.00
KBA    84.64 320 ePc   19 16.10  -0.1
       1.2s   135.00nm          6.0mb
               i     19 18.60
               i     19 26.70
               (PP)  22 34.50
               (sS)  30 19.50
TRI    85.07 318 eP    19 17.20  -0.9
               ePP   22 32.10
               iPPP  24 31.00
               eS    29 37.20
               eSS   35 16.00
               eSSS  38 36.00
WIT    85.24 327 eP    19 20.00   1.2
FUR    85.29 321 eP    19 20.00   0.8
       1.8s  1020.00nm          6.7mb
               eS    29 40.00
AKU    85.46 345 iP    19 19.80   0.1
       1.1s    70.90nm          5.8mb
     Z  17s    47.60um          7.0MszX
               i     23 32.90
WTS    85.63 326 eP    19 21.50   0.7
       3.0s   875.00nm          6.4mb
               i     19 30.20
               e     19 47.00
TNS    85.76 324 ePc   19 21.20  -0.4
               ePP   22 43.30
               eS    29 45.00
BNS    86.02 325 iPc   19 20.50  -2.3
       6.0s     6.90nm          4.1mb X
               ePP   22 40.00
               eS    30 13.80
OGA    86.11 320 iPc   19 21.30  -2.3
       1.4s   275.00nm          6.3mb
DBN    86.40 327 iP+   19 26.00   1.5
     Z  20s    36.00um          6.8Msz
               ePP   22 46.00
               eSKS  29 50.00
               eS    30 02.00
               ePS   31 06.00
               eSS   36 00.00
               eSSS  39 52.00
NAI    86.54 267 eP    19 29.00   2.8
       1.1s   114.00nm          6.0mb
SGO    86.61 313 ePc   19 26.50   0.7
               ePP   22 50.00
PGC    86.88  37 eP    19 27.60   1.6
GDH    86.77 359 iPd   19 26.80   0.7
       1.1s   127.00nm          6.1mb
               iS    30 05.00
ENN    86.79 325 ePc   19 27.00   0.5
       2.5s   263.00nm          6.0mb
               ePP   22 48.00
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GWF   86.90 323 iPc   19 28.20   1.1
AQU   86.97 315 eP    19 28.50   0.8
SAL   87.07 319 eP    19 28.50   0.5
      1.0s   230.00nm          6.4mb
SLE   87.09 322 iP+   19 27.50  -0.6
LLS   87.29 321 iP+   19 29.00  -0.3
ZUL   87.30 322 iP+   19 28.00  -1.1
WLF   87.30 324 P+    19 30.00   1.0
                PP    22 57.00
                S     30 09.00
                SS    36 13.00
CDF   87.40 323 eP    19 30.20   0.5
      1.4s   318.00nm          6.4mb
MNS   87.42 316 eP    19 29.50  -0.2
UCC   87.58 326 P+    19 30.00  -0.3
                e     19 57.30
                PP    22 55.00
                S     30 26.00
ECH   87.58 323 iPc   19 30.60   0.2
FIR   87.59 317 eP    19 31.00   0.5
                iS    29 50.00
RMP   87.70 315 eP    19 31.00  -0.1
                ePP   22 56.00
                eS    29 57.00
TMA   87.78 320 iP+   19 30.50  -1.1
DOU   87.87 325 P+    19 32.00   0.3
                PP    22 59.00
                S     30 18.00
BAF   87.89 322 iPc   19 32.30   0.3
BSF   88.00 323 eP    19 32.70   0.1
      1.4s   225.00nm          6.2mb
HAU   88.15 323 eP    19 33.60   0.4
      1.4s   192.00nm          6.2mb
VG1   88.29 319 eP    19 33.50  -0.3
                eS    30 07.50
MMK   88.33 321 iP+   19 33.00  -1.4
PNT   88.38  35 eP    19 34.00  -0.3
      1.1s   309.00nm          6.5mb
                pP    19 52.00  64kmX
DIX   88.64 321 iP+   19 35.50  -0.4
LON   88.67  38 ePc   19 36.10   0.4
COR   89.01  41 iPd   19 39.00   1.7
EDM   89.02  30 ePc   19 37.40   0.1
      1.1s   468.00nm          6.7mb
CVF   89.71 317 eP    19 41.40   0.7
      1.3s   316.00nm          6.5mb
VDM   89.71 325 eP+   19 41.50   1.0
LOR   89.94 323 iPc   19 41.80   0.1
LBF   90.05 323 iPc   19 42.60   0.4
NPA   90.05 254 iP    19 44.00   1.4
                i     19 52.00
                e     20 18.00
SSF   90.26 323 iPc   19 43.60   0.5
      1.4s   159.00nm          6.1mb
SMF   90.33 323 eP    19 43.80   0.3
NEW   90.33  35 iPc   19 44.10   0.6
      1.0s   270.00nm          6.5mb
AVF   90.51 323 eP    19 44.50   0.2
FRF   90.51 319 eP    19 44.70   0.3
      1.3s   330.00nm          6.5mb
YKM   90.69  34 iPc   19 46.10   0.8
LMR   90.72 319 eP    19 45.90   0.6
      1.3s   237.00nm          6.4mb
LRG   90.74 319 eP    19 44.30  -1.1
      0.5s    11.00nm          5.5mb
DMU   90.80 333 eP    19 44.70  -0.8
      1.3s   210.00nm          6.4mb
DDK   90.93 332 eP    19 45.90  -0.1
      0.9s   150.00nm          6.4mb
RXF   90.99  34 iPc   19 47.40   0.8
DLE   91.08 332 eP    19 46.40  -0.4
      1.0s    90.00nm          6.1mb
LDM   91.15  34 iPc   19 48.40   1.1
LMD   91.15  35 iPc   19 48.30   1.0
LDF   91.23 326 eP    19 47.90   0.4
FLN   91.30 326 eP    19 48.20   0.3
DCN   91.35 333 eP    19 47.40  -0.6
      1.3s   210.00nm          6.4mb
CLX   91.40  34 iPc   19 50.00   1.4
TCF   91.44 323 iPc   19 49.40   0.8
      1.4s   225.00nm          6.4mb
DRV   91.56 173 eP    19 49.00   0.6
WDC   91.71  44 eP    19 50.00   0.0
GRR   91.74 326 eP    19 50.70   0.8
LSF   91.83 323 iPc   19 51.00   0.6
      1.4s   264.00nm          6.5mb
FRB   91.92   5 eP    19 50.00  -0.4
FCC   91.97  18 eP    19 49.20  -1.6
      1.1s   241.00nm          6.5mb
SES   91.98  31 ePc   19 50.50  -0.5
      1.0s   371.00nm          6.8mb
CAF   92.36 322 iPc   19 54.20   1.3
R.F   92.43 323 iPc   19 54.40   1.2
MFF   92.51 324 eP    19 54.70   1.2
      1.8s   191.00nm          6.2mb
FFC   92.65  24 eP    19 53.00  -1.0
      0.7s   155.00nm          6.5mb
ORV   92.95  44 eP    19 55.30  -0.4
LPO   93.00 322 iPc   19 56.90   1.1
      1.4s   252.00nm          6.5mb
LFF   93.09 323 iPc   19 57.40   1.2
      1.4s   252.00nm          6.5mb
MIR   93.18 191 eP    20 11.00  15.1X
                ePP   20 18.00  22kmX
                isP   20 29.00
BKS   93.43  46 eP    19 59.20   1.3
      1.2s   170.00nm          6.4mb
    Z  20s    11.00um          6.3Msz
    N  20s     6.00um
    E  20s    12.00um
                ePP   23 38.00
                eS    29 30.00
                eSSS  40 53.20
VAL   93.62 333 iP    19 59.00   0.6
                S     30 42.00
MHC   94.12  46 eP    20 01.90   0.7
LRM   94.34  35 eP    20 08.10   5.8X
EPF   94.51 321 iPc   20 03.00   0.1
      1.4s    87.80nm          6.0mb
JAS   94.55  45 eP    20 02.80  -0.3
PRI   95.44  46 eP    20 09.60   2.2
TET   95.47 255 eP    20 18.00  10.5X
                e(S)  30 45.00
EBR   95.81 320 eP    20 09.00   0.2
                e     24 02.00
                e     30 56.00
EUR   96.43  42 iP    20 12.00   0.0
      0.5s     5.32nm          5 3mb
LGR   96.48 322 iPd   20 13.40   1.6
                eS    30 41.00
MTD   97.48 255 eP    20 19.00   2.3
                ipP   20 35.00  55kmX
                ePP   24 13.00
DUG   97.85  39 P     20 30.00  11.8X
BDW   97.93  36 eP    20 19.20   0.6
      1.2s    29.00nm          5.7mb
                e     20 33.00
ALI   97.95 318 iP-   20 18.00  -0.5
                i     24 18.00
PAS   98.27  47 eP    20 21.00   1.0
    Z  20s    19.30um          6.6Msz
    N  20s     6.40um
    E  20s    10.70um
                ePP   24 28.00
                ePPP  27 04.00
                eS    31 12.00
                ePS   33 20.00
                eSS   38 44.00
RSON  98.74  22 ePc   20 21.00  -0.8
KRI   99.24 256 eP    20 19.00  -5.7X
                ePP   24 20.00
RSSD  99.79  32 ePc   20 27.60   0.5
GLA  101.15  46 e(Pdif20 34.30   1.3
BUL  101.36 253 ePdif20 34.00  -0.3
                ePP   24 35.00
LHC  102.32  21 ePdif20 38.00   0.2
GOL  102.34  36 ePdif20 41.00   2.5X
    Z  18s    16.50um          6.6Msz
GLD  102.38  36 ePdif20 38.80   0.3
      0.8s    23.50nm          5.9mb
    Z  20s    19.00um          6.6Msz
                e     21 02.50
SLR  103.64 248 ePdif20 28.20 -16.2X
    Z  20s    93.60um          7.3Msz
                i     25 01.90
ALO  105.11  40 ePdif20 53.10   2.3X
      1.0s     7.50nm          5.6mb
    Z  20s    12.40um          6.4Msz
ALO  105.11  40 ePKP  25 06.00   0.6
      1.0s     8.75nm
    Z  20s    18.60um          6.6Msz
JCT  112.20  39 ePKP  25 18.00  -0.7
      1.0s    37.50nm
    Z  18s    25.10um          6.8Msz
                                          24d 09h
ATX  113.41  38 ePKP  25 20.50  -0.5
HKT  114.81  36 ePKP  25 24.00   0.4
KIC  120.24 294 ePKP  25 33.30  -1.1
                e     27 00.00
IIC  120.33  47 ePKP  25 35.20   0.3
IIP  120.85  47 ePKP  25 36.60   0.7
IIT  121.49  46 ePKP  25 38.20   1.2
ACX  121.94  49 ePKP  25 37.40  -0.2
SJG  137.11  12 ePKP  26 06.40  -0.2
    Z  20s    16.30um          6.8Msz
TOV  144.16  21 ePKP  26 17.30  -2.0
CAR  144.31  16 iPKPd 26 13.00  -6.6X
      1.0s    84.00nm
SDV  144.72  23 ePKP  26 19.20  -1.2
UAV  144.79  24 ePKP  26 20.20  -0.3
CHN  146.08  34 iPKP  26 23.00   0.3
BOG  147.14  31 ePKP  26 25.20   0.5
PSO  148.29  40 ePKP  26 27.00   0.4
ITR  156.13 307 ePKP  26 37.20  -0.1
                i     26 42.20
                e     27 04.80
SOB1 158.20 310 ePKP  26 39.40  -0.5
                e     26 42.10
                e     27 03.20
                e     27 15.10
ARE  164.84  62 ePKP  26 51.00   4.1X
LPB  167.51  54 PKPc  26 51.00   1.9
      0.8s   194.00nm
    Z  20s    12.10um
                SKS   38 20.00
ANT  168.23  90 ePKP  26 52.50   3.6X
LPA  169.33 178 iPKP- 26 48.80  -0.4
    Z  22s    17.00um
VAO  170.22 275 ePKP  26 51.40   1.2
    S.D. = 1.1  on 362 of 412 obs.

&  JUL  12, 1983  15h 10m 04.32s
   61.028 N          147.147 W
   DEPTH =  17.5km  (geophysicist)
   6.3mb ( 89 obs.)  6.4Msz ( 42 obs.)
 SOUTHERN ALASKA                  (  2)
      <AGS>  Damage (VI) at Valdez.
      Felt (V) at Chitina, Chugiak,
      Cooper Landing, Copper Center,
      Cordova, Fort Richardson,
      Gakona, Girdwood, Moose Pass,
      Skwentna, Sutton, Whittier and
      Willow. Felt (IV) at Anchorage,
      Palmer and Seward. Felt (III) at
      Fairbanks and Yakutat. Also felt
      (III) at Whitehorse, Yukon
      Territory.

VLZ   0.41  75 iPc   10 12.71   0.0
PWL   0.60 254 iPc   10 14.70  -1.4
HIN   0.71 153 iPc   10 18.12   0.3
KNK   0.74 302 iPc   10 17.58  -0.8
KLU   0.75  51 iPc   10 17.75  -0.9
SCM   0.81 354 iPc   10 18.87  -0.8
CVA   0.84 125 iPc   10 20.44   0.4
TSIM  0.90  76 iPc   10 20.15  -1.0
PTE   0.93 261 iPc   10 20.10  -1.5
SML   0.97 324 iPc   10 21.12  -1.2
SGAM  1.09 118 iPc   10 24.22  -0.1
PME   1.09 304 iPc   10 23.01  -1.3
PMR   1.11 301 iPc   10 23.17  -1.5
MTG   1.13 189 eP    10 24.98  -0.1
                iS   10 42.07
TOA   1.18  23 iPd   10 25.03  -0.9
PMS   1.19 282 iPc   10 24.50  -1.6
MPA   1.21 245 iPc   10 24.58  -1.8
BMRM  1.25  92 iPc   10 25.58  -1.5
PWA   1.46 297 iPc   10 28.71  -1.1
SEW   1.47 232 iPc   10 27.97  -2.0
HMT   1.58 115 iPc   10 30.35  -1.3
SKL   1.59 252 iPd   10 30.28  -1.5
MID   1.66 166 ePd   10 31.40  -1.3
GLB   1.67  74 iPc   10 32.04  -0.9
KAIM  1.75 128 iPc   10 32.71  -1.3
SUA   1.79 286 iPc   10 33.66  -1.1
NKA   2.02 264 iPc   10 38.20   0.2
BRNE  2.07 239 iPd   10 36.70  -2.1
PAX   2.10  21 iP    10 38.80  -0.5
WAX   2.19 103 iPc   10 38.89  -1.6
BRSE  2.20 234 iPd   10 38.40  -2.2
BRLK  2.25 237 iPd   10 39.05  -2.3
NNL   2.28 246 iPd   10 40.10  -1.6
```

12d 15h

SNH	2.29	110	iPd	10 39.42	-2.5	
SKT	2.31	296	iPc	10 40.54	-1.6	
BRNW	2.32	241	iPd	10 40.90	-1.5	
BALM	2.34	88	iPc	10 41.15	-1.5	
CGLM	2.37	279	iPc	10 41.38	-1.7	
BRSW	2.39	236	iPd	10 40.91	-2.4	
SPU	2.39	276	iPc	10 41.30	-2.0	
CRP	2.44	278	iPc	10 42.42	-1.7	
SDEM	2.60	234	iPd	10 44.02	-2.4	
RDT	2.62	262	iPd	10 44.06	-2.6	
HOM	2.62	240	iPc	10 42.96	-3.6	
SLV	2.71	237	iPd	10 45.28	-2.5	
YAH	2.74	102	iPc	10 46.69	-1.8	
RED	2.83	260	eP	10 46.90	-2.7	
CTGM	2.83	89	iPc	10 48.34	-1.4	
ILM	2.92	256	iPd	10 47.98	-2.8	
GYO	2.94	185	iPc	10 49.43	-1.6	
CHX	3.13	105	iPc	10 52.45	-1.4	
HDA	3.39	1	iP	10 56.30	-1.2	
AUM	3.52	245	eP	10 57.47	-1.7	
PCA	3.53	102	iPc	10 57.13	-2.4	
PDB	3.71	253	iPd	10 58.77	-3.3	
BCPM	3.87	103	eP	11 02.05	-2.2	
COL	3.90	356	iPc	11 02.80	-1.9	
FBA	3.90	356	iPc	11 02.75	-1.9	
GLM	3.98	359	iP	11 03.80	-2.0	
PNL	4.08	106	eP	11 03.90	-3.4	
SVW	4.12	275	iPc	11 04.36	-3.5	
KDC	4.28	222	iPd	11 06.82	-3.2	
BGM	4.35	251	iPd	11 07.14	-4.0	
HON	4.41	107	ePc	11 08.19	-3.8	
TTA	4.60	298	iPc	11 11.26	-3.5	
FYU	5.62	8	iP	11 26.60	-2.4	
IMA	5.84	333	iPc	11 28.70	-3.5	
ABF	6.86	107	iPc	11 43.00	-3.4	
SIT	7.28	118	iPc	11 48.35	-4.0	
ANM	9.06	301	eP	12 13.60	-3.5	
SDN	9.06	237	iPc	12 12.30	-4.7	
INK	9.32	33	eP	12 17.00	-3.7	
BRW	11.00	344	eP	12 38.30	-5.4	
NKI	14.28	245	eP	13 21.00	-6.4	
PHC	15.07	124	eP	13 34.00	-3.8	
	1.9s	7380.00nm			6.7mb	
ILT	15.09	310	iPc	13 33.50	-4.4	
	1.6s	4600.00nm			6.6mb	
RSNT	15.39	70	iPc	13 38.30	-3.6	
YKC	15.44	70	ePc	13 38.00	-4.6	
	0.7s	47.00nm			4.9mb X	
MBC	17.98	21	eP	14 10.00	-4.4	
PGC	18.30	122	ePd	14 18.30	-0.3	
	1.2s	462.00nm			5.5mb	
MCW	18.53	121	eP	14 21.50	0.0	
ADK	18.56	254	iPc	14 17.70	-4.0	
PNT	19.44	115	eP	14 31.60	-0.9	
EDM	19.74	98	eP	14 32.20	-3.6	
BFW	20.13	125	eP	14 38.80	-1.1	
LON	20.48	123	eP	14 41.00	-2.6	
SHW	20.76	124	eP	14 46.90	0.3	
NEW	21.33	113	iPd	14 51.40	-0.8	
YKM	21.53	110	iP-	14 53.70	-0.6	
			eS	21 56.00		
COR	21.68	129	iPd	14 55.00	-0.7	
RXF	21.79	109	iP	14 56.70	-0.3	
			iS	21 52.40		
SMY	22.44	266	eP	14 59.20	-3.9	
	Z 20s	95.00um			6.2Msz	
			e	15 09.90		
SES	22.65	102	iPc	15 04.20	-1.1	
PNO	22.66	120	eP	15 04.80	-0.7	
FFC	24.41	85	eP	15 21.00	-1.4	
FHC	24.72	134	ePd	15 25.60	0.1	
LGBM	24.88	131	ePc	15 27.50	0.2	
LRM	25.27	111	ePd	15 29.30	-1.7	
WDC	25.43	132	eP	15 32.00	-0.2	
RMT	25.96	133	ePc	15 36.30	-0.9	
MIN	25.97	131	ePd	15 36.00	-1.5	
FCC	26.11	71	ePd	15 35.40	-3.0	
	1.3s	1270.00nm			6.4mb	
NWRM	27.19	135	e(P)	15 47.50	-1.0	
			e	15 58.30		
IMW	27.44	112	ePd	15 50.00	-1.1	
TMI	27.46	114	eP	15 49.30	-2.0	
WCN	27.56	130	ePd	15 50.70	-1.4	
SEY	27.57	301	eP	15 46.50	-5.2	
	8.0s	5000.00nm			6.3mb X	
	Z 16s	379.00um			7.1MszX	
	N 16s	130.00um				
	E 16s	250.00um				
			isP	16 01.20		
			ePP	16 36.20		
			ePPP	16 48.20		
			eS	20 22.20		
BMN	27.58	125	iPc	15 50.80	-1.4	
BKS	27.94	135	ePd	15 54.30	-1.0	
	0.8s	40.00nm			5.2mb X	
	Z 20s	68.00um			6.2Msz	
	E 20s	63.00um				
			eS	20 45.20		
BEI	28.48	115	eP	16 00.30	0.0	
JAS	28.51	132	iPd	15 59.10	-1.4	
			i	16 09.00		
			iPcP	19 15.10		
MHC	28.62	134	ePd	16 00.00	-1.6	
			e	16 10.50		
ARN	28.65	134	eP	15 58.90	-2.9	
EUR	28.89	124	iP	16 02.20	-1.9	
	0.5s	116.00nm			5.9mb	
MNA	28.94	128	eP	16 02.70	-1.7	
BDW	28.94	112	iPd	16 02.50	-2.0	
SLD	29.01	134	eP	16 03.50	-1.5	
ALE	29.34	16	eP	16 04.80	-2.7	
	0.9s	143.00nm			5.8mb	
MGD	29.51	296	iPd	16 04.00	-5.2	
	1.6s	690.00nm			6.2mb	
	Z 18s	137.00um			6.6Msz	
	N 18s	44.00um				
	E 18s	61.00um				
			iPP	17 05.00		
			iPPP	17 13.00		
			iS	20 54.00		
DUG	29.60	119	ePd	16 08.20	-2.2	
FRI	29.62	132	eP	16 08.50	-1.9	
PET	29.76	279	iP	16 06.00	-5.5	
	1.9s	250.00nm			5.7mb	
	Z 20s	75.00um			6.3Msz	
	N 17s	37.60um				
	E 17s	76.70um				
			ePP	17 11.00		
			ePPP	17 18.00		
			ePcP	19 16.00		
			eS	20 58.00		
			eSSS	23 00.00		
PRI	30.04	134	ePd	16 13.40	-1.0	
			e	16 23.40		
			ePcP	19 30.00		
PHAM	30.41	134	eP	16 16.60	-0.9	
RSSD	30.46	104	ePd	16 16.10	-2.0	
RSON	30.75	85	eP	16 17.40	-2.9	
BKU	30.86	121	eP	16 19.30	-2.3	
WKTM	31.15	131	eP	16 22.00	-2.1	
VPEM	31.25	130	iPd	16 23.70	-1.3	
MSU	31.28	120	iPc	16 23.80	-1.6	
WMU	31.92	119	ePd	16 29.30	-1.7	
TIK	32.37	324	ePd	16 29.50	-4.8	
	Z 14s	180.00um			6.9MszX	
	N 17s	43.00um				
	E 15s	150.00um				
			ipP	16 39.40	35kmX	
			esP	16 43.00		
			ePP	17 44.00		
			ePPP	17 54.00		
			eS	21 39.00		
			eSS	23 39.00		
SKR	32.47	278	iPd	16 28.80	-6.6	
	1.0s	50.00nm			5.4mb	
	Z 18s	54.00um			6.3Msz	
	N 18s	54.00um				
	E 18s	61.60um				
			epP	16 41.20	48kmX	
			isP	16 42.60		
			ePP	17 39.60		
			ePPP	17 48.00		
			iS	21 38.40		
			eSS	23 28.80		
SDW	32.71	130	eP	16 35.80	-2.0	
PAS	32.72	132	iPd	16 37.00	-0.7	
	1.4s	1000.00nm			6.6mb	
			epP	16 45.00	28kmX	
			ePP	17 55.00		
			iS	21 56.00		
GOL	33.30	111	ePd-	16 41.00	-2.0	
GLD	33.32	110	eP-	16 41.50	-1.6	
	1.5s	2030.00nm			6.8mb	
	Z 18s	83.70um			6.5Msz	
FRB	34.40	51	ePd	16 48.00	-3.9	
LHC	34.53	85	eP	16 49.50	-3.7	
	1.7s	897.00nm			6.4mb	
GDH	36.37	37	iPc	17 06.00	-2.6	
	1.1s	228.00nm			5.9mb	
			i	27 20.00		
ALO	36.74	116	ePd-	17 10.50	-1.9	
	1.0s	205.00nm			5.9mb	
	Z 20s	57.60um			6.4Msz	
YAK	37.09	309	eP	17 09.40	-5.4	
	1.3s	830.00nm			6.4mb	
	Z 12s	44.00um			6.5MszX	
	N 12s	23.70um				
	E 13s	35.70um				
			iPP	18 38.40		
			iPPP	18 51.40		
			iPcP	19 33.40		
			iS	22 53.40		
KHE	37.88	353	iPc	17 19.00	-2.2	
	1.5s	1040.00nm			6.4mb	
	Z 18s	68.00um			6.5Msz	
	N 18s	39.00um				
	E 18s	23.00um				
			ePP	18 42.00		
			iPcP	19 35.00		
			iS	23 06.00		
DAG	38.71	17	iPd	17 24.70	-3.4	
	0.4s	212.00nm			6.2mb	
			iS	23 17.00		
KBS	39.74	6	iP	17 35.50	-1.2	
LUB	39.92	112	eP	17 36.50	-2.4	
			epP	17 49.00	46kmX	
KUR	40.22	277	iPd	17 37.00	-4.0	
	1.0s	590.00nm			6.2mb	
	Z 18s	29.40um			6.2Msz	
	N 18s	45.30um				
	E 18s	21.80um				
			iS	23 42.00		
			eSS	26 27.00		
OCO	40.33	106	ePd	17 39.80	-2.3	
			e	17 50.80		
ACM	40.35	88	ePd	17 39.50	-2.6	
SCH	40.58	61	iPd	17 29.50	-14.5	
	2.7s	8440.00nm				
TUL	40.81	104	iPd-	17 43.50	-2.5	
	1.6s	2740.00nm			6.7mb	
	Z 20s	235.00um			7.0Msz	
			e	17 55.50		
RLO	40.97	103	e(P)	17 44.30	-3.0	
GBO	41.14	103	iPd	17 45.60	-3.1	
YSS	41.39	283	iPd	17 48.00	-2.6	
	1.4s	190.00nm			5.6mb	
	Z 22s	82.00um			6.6Msz	
	N 22s	52.00um				
	E 22s	60.00um				
			epP	17 58.00	34kmX	
			isP	18 00.00		
			ePP	19 32.00		
			iS	23 56.00		
AAM	41.68	87	ePd	17 51.20	-1.8	
FVM	41.72	97	iPd	17 50.00	-3.4	
	1.6s	544.00nm			6.0mb	
	Z 18s	48.20um			6.4Msz	
			e	18 01.70		
			e	19 36.20		
IN2	41.96	92	ePd	17 52.60	-2.7	
ELF	42.14	84	P	17 55.00	-1.8	
UTO	42.20	87	iPd	17 56.50	-0.8	
DLA	42.27	85	P	17 56.60	-1.3	
LDN	42.32	84	P	17 56.20	-2.1	
AN12	42.47	89	ePd	17 56.50	-3.0	
BHO	42.49	104	eP	17 58.70	-1.1	
			e	18 10.70		
AN11	42.50	89	ePd	17 56.40	-3.4	
NEM	42.73	277	P	17 56.60	-5.0	
POW	42.81	99	eP	17 58.50	-3.9	
AN1	42.83	89	ePd	17 59.60	-2.9	
ELC	42.85	96	ePd	17 59.40	-3.3	
IN3	42.97	92	ePd	18 00.30	-3.3	
WAK	43.06	282	P	18 06.00	1.7	
OTT	43.19	77	eP	18 02.00	-3.4	
	0.8s	95.00nm			5.6mb	
OLY	43.20	100	ePd	18 01.30	-4.2	
KUSJ	43.33	278	P	18 00.50	-6.0	
JCT	43.48	113	iPd	18 05.50	-2.4	
	0.8s	560.00nm			6.4mb	
	Z 18s	120.00um			6.8Msz	

12d 15h

		eS	24	32.00		
ASAJ	43.56	280	P	18	03.70	-4.7
DHN	43.93	82	eP	18	08.50	-2.9
ASA	43.95	280	P	18	08.00	-3.5
NRI	44.05	335	iPc	18	07.50	-4.5
	1.6s	140.00nm				5.5mb
N	25s	108.00um				
E	25s	49.00um				
		epP	18	14.00		22kmX
		ePcP	19	58.00		
		eS	24	35.00		
		eScS	27	56.00		
MNT	44.10	76	eP	18	09.00	-3.7
	1.0s	140.00nm				5.8mb
PTN	44.15	78	eP	18	10.00	-3.2
RSNY	44.39	77	eP	18	11.70	-3.4
HOOJ	44.56	278	P	18	11.70	-4.7
APH	44.93	78	eP	18	16.00	-3.5
URA	44.97	278	P	18	16.00	-3.8
SAP	44.98	280	eP	18	15.00	-4.9
		eS	24	51.00		
PWLA	45.26	97	iPd	18	19.10	-3.1
CBM	45.60	70	eP	18	26.30	1.5
BOD	45.66	312	iPd	18	21.00	-4.1
BNH	45.90	75	ePc	18	24.50	-2.7
		epP	18	34.70		34kmX
RSCP	45.96	95	iPd	18	24.50	-3.3
TUP	46.03	306	ePd	18	24.00	-4.0
	1.8s	260.00nm				5.9mb
HAK	46.21	280	P	18	25.00	-4.5
MIM	46.44	73	eP	18	28.40	-3.0
NAV	46.93	89	ePd	18	32.10	-3.3
MZX	47.03	125	ePc	18	35.70	-0.5
GPD	47.10	80	eP	18	33.50	-3.2
BLA	47.19	89	iP-	18	34.00	-3.5
	1.4s	360.00nm				6.2mb
		ipP	18	45.20		39kmX
		iS	25	27.20		
MIY	47.30	277	P	18	35.00	-3.2
AOMJ	47.36	279	P	18	33.00	-5.7
PRIN	47.48	81	iPd	18	37.00	-2.7
CVL	47.54	86	ePc	18	37.00	-3.1
EMM	47.54	72	eP	18	37.20	-2.9
MRK	47.65	278	P	18	38.00	-3.0
NA12	47.82	86	ePc	18	39.40	-2.9
OFU	47.88	277	P	18	39.00	-3.8
OFUJ	47.89	277	P	18	38.80	-4.1
AKU	48.08	26	iP	18	41.70	-2.3
	1.1s	324.00nm				6.3mb
HJH	48.40	278	P	18	42.70	-4.2
REY	48.57	29	iP	18	46.20	-1.5
ISN	48.58	276	P	18	44.00	-4.2
PRM	48.75	93	iPd	18	46.60	-3.0
JSC	49.13	92	iPd	18	49.10	-3.4
YAM	49.17	277	P	18	49.00	-3.8
TRO	49.25	6	iP+	18	49.00	-4.0
YAMJ	49.39	277	P	18	51.00	-3.5
VLA	49.39	288	iPc	18	50.00	-4.4
Z	17s	117.00um				6.9MszX
N	17s	119.00um				
E	17s	91.30um				
		ePP	20	51.00		
		iS	25	49.00		
		iSP	25	55.00		
		iScS	28	39.00		
KEV	49.44	3	iP	18	50.70	-3.7
	0.7s	69.40nm				5.8mb
Z	24s	47.10um				6.4MszX
		i	18	59.90		
		eS	25	56.00		
OSB	49.92	92	eP	18	56.20	-2.4
SHR	50.13	276	P	18	57.00	-3.2
AIK	50.37	279	P	18	57.80	-4.2
NIIJ	50.62	277	P	18	59.40	-4.5
KAKJ	50.88	276	P	19	01.70	-4.2
KIR	51.11	6	iP	19	03.40	-3.9
MAT	51.56	278	iPd	19	06.60	-4.5
	1.6s	400.00nm				6.1mb
Z	20s	13.50um				6.0Msz
		eS	26	26.00		
CHJJ	51.58	276	P	19	07.00	-4.2
APA	51.72	360	iPc	19	08.40	-3.4
	1.6s	1000.00nm				6.5mb
		iS	26	26.00		
		iSPP	26	41.00		
		eSS	30	06.00		
MTMJ	51.72	278	P	19	08.10	-4.3

SOD	51.82	3	iP	19	08.30	-4.3
			eP'P'	49	43.00	
STJ	51.88	59	eP	19	09.50	-3.8
	1.1s	418.00nm				6.3mb
KTJ	52.42	276	P	19	13.40	-4.1
IIDJ	52.56	277	P	19	14.50	-4.2
SHZ	52.73	276	P	19	25.00	5.2
IIC	53.05	119	eP	19	20.00	-2.8
TAC	53.40	119	iP	19	36.00	10.7
TSRJ	53.44	279	P	19	20.90	-4.2
IIM	53.47	119	iP	19	23.00	-2.8
HIK	53.53	278	P	19	28.00	2.3
IRK	53.56	314	ePd	19	21.00	-4.8
	2.0s	160.00nm				5.7mb
Z	16s	134.00um				7.1MszX
N	16s	92.60um				
E	16s	41.40um				
		epP	19	30.30		31kmX
		esP	19	35.00		
		ePPP	22	32.00		
		eS	26	47.50		
		eSS	30	32.00		
IIP	53.57	119	eP	19	25.10	-1.5
IIT	54.12	118	ePc	19	27.80	-2.7
III	54.20	120	ePd	19	26.70	-4.3
WKYJ	54.70	278	P	19	31.00	-3.4
YONJ	54.93	280	P	19	31.40	-4.7
KJF	55.03	3	iP	19	32.00	-4.4
	0.7s	176.00nm				6.2mb
Z	24s	35.00um				6.4MszX
		i	19	42.00		
		eS	27	08.00		
		eP'P'	49	39.00		
ACX	55.38	121	ePd	19	36.40	-3.1
ZAK	55.49	313	iPd	19	35.00	-4.8
	2.2s	460.00nm				6.1mb
Z	16s	72.70um				6.9MszX
N	16s	64.00um				
E	16s	9.78um				
		ePPP	22	49.50		
		eSS	30	58.50		
TKSJ	55.63	279	P	19	37.40	-3.7
SHK	55.84	281	iPd	19	37.80	-4.9
VHO	56.38	118	iP	19	46.00	-0.9
SUF	56.47	4	iP	19	42.30	-4.5
	0.7s	244.00nm				6.3mb
SHNJ	56.92	282	P	19	46.10	-4.3
BER	57.07	16	iPd	19	47.40	-3.7
NB2	57.13	12	P	19	46.90	-4.7
NVS	57.73	328	iPd	19	50.70	-5.0
	2.4s	440.00nm				6.1mb
KONO	58.31	14	ePd	19	56.00	-3.8
KUMJ	58.36	281	P	19	56.00	-4.5
ELT	58.41	325	iPd	19	59.80	-0.8
	6.4s	2700.00nm				6.5mb X
NUR	58.63	5	iP	19	57.50	-4.5
	0.9s	117.00nm				6.0mb
Z	25s	26.00um				6.3MszX
		i	20	07.90		
		ePPP	23	40.00		
		eS	27	56.00		
		eP'P'	49	31.00		
NGS	58.66	282	P	20	06.00	3.5
UPP	58.87	9	iP	19	59.00	-4.7
		i	20	08.60		
		iS	27	59.00		
		eP'P'	49	24.00		
BJI	58.92	297	eP	19	59.50	-4.8
		pP	20	09.00		31kmX
		sP	20	14.00		
		eS	27	59.00		
		sS	28	16.00		
		ScS	29	40.00		
KAGJ	59.44	280	P	20	02.80	-5.2
PUL	59.52	1	ePd	20	04.00	-4.2
	1.5s	2300.00nm				7.1mb
		ePP	22	21.00		
		ePPP	23	40.00		
		iS	28	09.00		
		iSP	28	22.00		
		eSPP	28	35.00		
		eScS	29	49.00		
		eSS	32	04.00		
SVE	60.49	343	iPd	20	10.00	-4.9
	2.6s	3900.00nm				7.1mb
Z	20s	68.00um				6.8Msz
N	20s	44.50um				

E	20s	32.00um				
		ePP	22	20.00		
		ePPP	24	00.00		
		iS	28	19.00		
EKA	60.54	23	Pc	20	12.10	-3.2
	1.5s	564.00nm				6.5mb
VAL	62.23	29	iP	20	22.50	-4.2
		iS	28	42.00		
ETA	62.42	26	iPc	20	24.30	-3.6
	2.0s	1600.00nm				6.8mb
COP	62.52	13	eP-	20	25.00	-3.5
Z	22s	28.10um				6.4Msz
		iS	28	52.00		
SEM	62.59	328	ePd	20	23.10	-6.0
	2.2s	1330.00nm				6.7mb
		ePcP	21	02.70		
		ePP	22	47.50		
		eS	28	38.60		
		eSP	29	03.50		
		eScS	30	09.60		
		eSS	32	48.90		
ECP	62.87	26	iPc	20	27.10	-3.8
	2.0s	1800.00nm				6.9mb
MOS	63.52	357	iPd	20	32.00	-3.1
	2.0s	4900.00nm				7.3mb X
Z	23s	44.00um				6.6MszX
N	22s	35.00um				
E	22s	18.00um				
		ePP	22	52.00		
		iS	29	05.00		
MVI	63.74	276	eP	20	33.00	-4.0
		e	29	06.00		
SSE	64.10	288	Pd-	20	35.80	-3.5
	4.0s	2.16nm				3.7mb X
E	16s	31.50um				
		sP	21	09.00		
		PP	22	00.00		
		S	29	10.00		
		sS	29	37.50		
		ScS	30	28.00		
		SS	33	14.00		
OBN	64.11	358	iPd	20	35.00	-4.0
	1.9s	5900.00nm				7.4mb X
		ePP	22	55.00		
		ePPP	24	34.00		
		iS	29	06.00		
		iSP	29	30.00		
HAM	64.40	15	iPd	20	38.00	-2.9
		eS	29	16.00		
WIT	64.60	17	ePd	20	40.00	-2.2
		e	20	48.00		
DBN	65.07	18	iP-	20	42.00	-3.3
Z	19s	18.50um				6.3Msz
		ipP	20	51.00		29kmX
		iPcP	21	23.00		
		ePP	23	16.00		
		iS	29	27.00		
		e	33	32.00		
WTS	65.42	17	iPd	20	44.40	-3.1
	1.5s	611.00nm				6.5mb
		e	20	54.00		
BRN	65.82	13	ePd	20	46.50	-3.5
		eS	29	31.00		
UCC	66.20	19	Pc-	20	49.00	-3.5
		S	29	39.00		
ENN	66.48	18	ePd	20	51.00	-3.3
	1.4s	625.00nm				6.6mb
		e	21	00.00		
WAR	66.69	8	eP	20	50.00	-5.6
Z	22s	15.00um				6.2Msz
		eS	29	43.00		
CLL	66.89	13	iPd	20	52.00	-4.1
	2.0s	1300.00nm				6.7mb
		eS	29	44.00		
		P'P'	49	18.90		
DOU	66.92	19	P-	20	54.90	-2.3
		e	21	01.90		
		PP	23	31.00		
		S	29	45.00		
FLN	67.31	23	eP	20	56.00	-3.6
	1.0s	200.00nm				6.2mb
MOX	67.38	14	iPd-	20	56.00	-4.1
	1.5s	1040.00nm				6.8mb
Z	18s	13.80um				6.2Msz
N	17s	9.70um				
E	19s	9.40um				
		i	21	05.00		

12d 15h

				ePP	23 30.00	
				e	25 36.00	
				eS	29 48.00	
				eP'P'	49 15.00	
TNS		67.38	17	ePd	20 56.60	-3.5
				ePcP	21 06.40	
				ePP	23 33.00	
				eS	29 52.70	
BRG		67.42	13	iPd	20 56.40	-3.9
	Z	18s	10.00um			6.1Msz
	N	18s	11.00um			
	E	18s	9.00um			
				eS	29 52.00	
LDF		67.54	23	eP	20 57.60	-3.5
GUMO		67.58	257	eP-	20 56.00	-5.7
				pP	21 04.80	28kmX
PJG		67.58	257	e(P)	20 55.20	-6.5
WLF		67.59	18	P-	21 00.00	-1.3
				PP	23 39.00	
				S	30 00.00	
GRR		67.60	24	eP	20 58.10	-3.3
GUA		67.60	257	eP-	20 55.00	-6.9
		0.8s	143.00nm			6.2mb
				eS	29 47.00	
KSP		67.69	11	iPd	20 58.00	-4.0
				i	21 08.50	
				eS	29 57.00	
LPF		67.90	24	eP	21 00.20	-3.1
GRF		68.27	15	ePd	21 02.00	-3.6
		2.1s	529.00nm			6.3mb
	Z	20s	8.00um			5.9Msz
				epP	21 12.20	33kmX
				ePP	23 40.30	
				eS	30 03.30	
PRU		68.36	13	iPd	21 02.50	-3.7
	Z	16s	13.20um			6.3MszX
	N	18s	9.30um			
	E	19s	10.20um			
				i	21 12.50	
				iPP	23 40.00	
				iS	30 02.00	
				e	31 00.00	
GWF		68.48	18	iPd	21 03.40	-3.6
KRA		68.78	9	iPd	21 04.90	-3.9
		1.9s	1520.00nm			6.8mb
	Z	20s	32.20um			6.6Msz
	N	28s	28.50um			
	E	28s	17.10um			
				i	21 14.40	
				i	21 23.30	
				i	21 28.90	
				i	21 37.90	
				e	23 54.00	
				iS	30 09.00	
BUH		68.86	17	ePd	21 06.10	-3.3
ANP		68.94	284	iP-	21 08.00	-2.2
				iS	30 12.00	
CDF		68.98	18	eP	21 06.90	-3.2
WET		69.01	14	eP	21 06.70	-3.5
	Z	22s	24.00um			6.4Msz
				eS	30 13.50	
KHC		69.10	13	iPd	21 07.50	-3.3
	Z	22s	13.80um			6.2Msz
	N	22s	8.10um			
	E	21s	5.90um			
				i	21 17.60	
				PP	23 48.10	
				S	30 14.00	
ECH		69.15	18	iPd	21 07.60	-3.5
HAU		69.23	19	eP	21 08.30	-3.3
LVV		69.28	6	iPd	21 08.00	-3.8
		4.0s	3400.00nm			6.9mb X
	Z	22s	24.80um			6.4Msz
	N	20s	24.90um			
	E	20s	12.70um			
				epP	21 20.00	41kmX
				iS	30 14.00	
				eSPP	30 45.00	
MFF		69.45	24	eP	21 10.00	-2.9
BSF		69.47	18	eP	21 09.80	-3.4
BAF		69.50	18	iPd	21 10.00	-3.3
LOR		69.54	21	eP	21 10.20	-3.3
		1.4s	502.00nm			6.5mb
SPC		69.67	9	eP	21 11.90	-2.6
				i	21 21.50	
				i	21 31.80	
				i(PP)	23 50.00	
SSF		69.68	21	eP	21 11.10	-3.2
FUR		69.77	15	eP	21 11.80	-3.1
				eS	30 23.00	
SLE		69.79	17	ePd	21 10.80	-4.2
LBF		69.83	21	eP	21 11.80	-3.5
AVF		69.91	21	eP	21 12.10	-3.6
TLG		69.94	327	ePd	21 11.70	-4.3
		2.3s	450.00nm			6.2mb
				iPP	23 52.00	
				ePPP	25 33.00	
				eS	30 12.50	
				eScS	31 06.00	
SJG		69.98	89	eP	21 12.00	-4.6
		1.5s	375.00nm			6.3mb
	Z	20s	55.30um			6.8Msz
ZUL		70.05	17	ePd	21 12.50	-4.1
AAA		70.05	327	iPd	21 13.00	-3.7
				ePPP	25 23.00	
				iS	30 21.00	
				eSS	34 44.00	
LSF		70.11	23	eP	21 13.50	-3.4
SMF		70.14	21	eP	21 13.50	-3.6
TCF		70.19	22	eP	21 14.00	-3.5
		1.5s	563.00nm			6.5mb
KMR		70.22	13	iP-	21 13.20	-4.4
VIE		70.27	12	eP-	21 14.40	-3.5
MZF		70.33	22	eP	21 14.90	-3.4
UZH		70.36	7	iPd	21 15.00	-3.4
		1.7s	500.00nm			6.4mb
	Z	20s	22.00um			6.4Msz
	N	20s	16.00um			
	E	20s	11.00um			
				ipP	21 26.00	36kmX
				iPcP	21 30.00	
				iPP	23 55.00	
				iS	30 28.00	
				iScS	31 16.00	
PRZ		70.40	326	ePc	21 15.00	-4.0
		1.0s	130.00nm			6.0mb
	Z	17s	90.00um			7.1MszX
	N	17s	110.00um			
				eS	30 22.00	
BHG		70.41	14	iPd	21 15.60	-3.2
				i	21 25.10	
SAX		70.41	17	ePd	21 15.70	-3.4
LLS		70.74	17	ePd	21 18.00	-3.0
SRO		70.88	10	iP	21 19.00	-2.6
	N	20s	13.30um			
	E	20s	12.80um			
				iS	30 32.00	
RJF		71.01	23	eP	21 18.90	-3.6
OGA		71.02	16	eP	21 19.80	-2.9
FRU		71.06	329	iPd	21 19.00	-3.8
		2.5s	4200.00nm			7.1mb
	Z	18s	113.00um			7.2Msz
	N	18s	80.00um			
	E	18s	56.00um			
				ePP	23 57.00	
				ePPP	25 36.00	
				eS	30 25.00	
				eSS	35 00.00	
KBA		71.10	14	iPd	21 18.60	-4.6
				i	21 19.10	
				i	21 28.50	
				e	29 07.50	
LFF		71.22	24	eP	21 19.70	-4.0
DIX		71.27	18	ePd	21 21.20	-3.2
MMK		71.38	18	ePd	21 21.90	-3.1
TMA		71.47	17	ePd	21 21.60	-3.8
CAF		71.48	23	eP	21 22.00	-3.3
LPO		71.55	23	eP	21 22.40	-3.3
SAL		72.10	16	eP	21 26.00	-3.4
LJU		72.25	13	iP	21 24.60	-5.3
				i	21 33.90	
				eS	30 46.90	
KIS		72.26	3	iPd	21 25.00	-4.8
		2.0s	690.00nm			6.3mb
	Z	19s	20.80um			6.4Msz
	N	20s	19.00um			
	E	20s	5.40um			
				iPP	24 09.00	
				iS	30 48.00	
TRI		72.50	14	iP	21 26.80	-4.5
				i	22 41.10	
				eS	30 48.90	
				eSP	31 24.50	
				eSS	35 32.00	
				eSSS	39 11.00	
CEY		72.54	13	eP	21 27.40	-4.2
VG1		72.65	17	iPc	21 29.50	-2.7
PTO		72.73	32	iPd	21 30.00	-2.7
				ipP	21 39.50	31kmX
				iS	30 52.00	
LGR		72.93	27	iPd	21 23.00	-10.9
				i(pP)	21 32.50	31kmX
				ePP	24 02.00	
				iS	30 52.00	
EPF		72.97	24	eP	21 30.40	-3.8
BPA		72.98	86	eP	21 29.00	-5.5
ANR		73.58	330	iPd	21 35.00	-2.7
		2.0s	770.00nm			6.4mb
	Z	14s	37.00um			6.8MszX
	N	14s	45.00um			
	E	14s	44.00um			
				iPcP	21 44.60	
				iS	31 00.30	
FRF		73.61	20	eP	21 34.80	-3.0
LRG		73.66	20	eP	21 35.40	-2.7
		0.8s	240.00nm			6.3mb
TAS		73.77	332	iPd	21 35.00	-3.8
		2.5s	5000.00nm			7.1mb
	Z	16s	38.50um			6.8MszX
	N	14s	37.00um			
	E	14s	36.00um			
				ePP	26 09.00	
				eS	30 50.00	
LMR		73.81	20	eP	21 36.20	-2.7
PAG		73.94	86	eP	21 35.00	-5.2
FIR		74.08	16	iPd	21 38.00	-2.5
				iS	31 08.00	
MGG		74.21	86	eP	21 36.00	-5.6
LGN		74.35	97	iP	21 48.00	5.6
SIM		74.37	359	iP	21 38.00	-4.2
				iPcP	21 48.00	
				eS	31 12.00	
				ePS	31 48.00	
ANN		74.38	357	iP	21 24.00	-18.2
	Z	22s	19.00um			6.3Msz
	N	22s	48.00um			
	E	20s	24.00um			
				ePcP	21 49.00	
				ePPP	26 17.00	
				iS	31 12.00	
				eSS	36 02.00	
BUC1		74.84	5	ePd	21 40.00	-4.9
HKC		74.84	288	eP	21 40.00	-5.2
				eS	31 12.00	
LIS		74.87	33	iPc	21 42.50	-2.6
CVF		74.93	18	eP	21 42.20	-3.3
PYA		74.97	352	iPd	21 42.00	-3.7
		2.0s	440.00nm			6.1mb
	Z	24s	29.40um			6.5MszX
	N	24s	22.40um			
	E	24s	15.40um			
				iS	31 16.00	
				eScS	31 47.00	
				iSS	36 12.00	
TOL		75.03	29	iPd	21 43.00	-3.1
		1.8s	20.00nm			4.8mb X
				(pP)	21 53.00	32kmX
				iPP	24 40.00	
				iS	31 20.00	
				iPS	32 12.00	
				iSS	36 40.00	
				iSSS	40 12.00	
EBR		75.13	25	eP	21 43.00	-3.6
				ePP	24 34.00	
				eS	31 22.00	
MCO		75.28	289	eP	21 53.80	6.0
TOV		75.37	96	iPc	21 46.50	-2.0
		0.8s	190.00nm			6.2mb
GRO		75.45	350	iPd	21 45.00	-3.4
		2.0s	2200.00nm			6.9mb
	Z	20s	5.00um			5.8Msz
	N	20s	40.00um			
	E	20s	80.00um			
				iS	31 23.00	
SOC		75.60	355	iPd	21 45.00	-4.2
		2.0s	1400.00nm			6.7mb
	Z	20s	17.00um			6.3Msz
	N	22s	19.00um			
	E	20s	13.50um			
				ePP	24 32.00	
				ePPP	26 27.00	

Sta	Comp	Dist / Period	Az / Amplitude	Phase	Time	Res / Mag
				eS	31 24.00	
MAK		75.63	349	iP	21 46.80	-2.6
		4.0s	********nm			7.2mb X
	Z	22s	46.20um			6.7Msz
	N	22s	55.10um			
	E	22s	56.70um			
				iS	31 23.80	
MNS		75.64	15	iPd	21 45.50	-4.0
		1.3s	330.00nm			6.2mb
UAV		75.74	98	eP	21 48.00	-2.7
GAR		75.74	331	iPd	21 46.40	-3.9
		4.2s	2000.00nm			6.5mb X
	Z	20s	65.00um			6.9Msz
				ePcP	21 55.90	
				ePP	24 44.90	
				ePPP	26 29.90	
				iS	31 24.90	
				ePS	32 04.90	
				eSS	36 17.90	
SDV		75.74	98	eP	21 47.60	-3.1
TPT		75.75	180	iP	21 47.00	-3.3
		1.2s	490.00nm			6.4mb
				ipP	21 59.70	43kmX
AOU		75.76	15	eP	21 48.50	-1.8
PMO		75.77	181	iP	21 47.20	-3.2
		1.2s	295.00nm			6.2mb
				ipP	21 59.80	43kmX
SAM		75.86	333	iPd	21 47.40	-3.5
		2.4s	5400.00nm			7.2mb
				eS	31 20.20	
				eSKS	31 42.00	
				ePS	32 04.20	
RUV		75.96	180	iP	21 48.10	-3.4
		1.2s	440.00nm			6.4mb
				ipP	22 00.60	42kmX
VAH		76.01	180	iP	21 48.50	-3.2
		1.2s	440.00nm			6.4mb
				ipP	22 01.10	43kmX
CAR		76.14	93	iPc	21 49.20	-3.7
		0.9s	40.30nm			5.5mb
	Z	20s	12.10um			6.2Msz
DSH		76.52	332	iPd	21 50.70	-4.0
		6.4s	6650.00nm			6.8mb X
	Z	14s	38.00um			6.9MszX
				iS	31 32.00	
DUI		76.57	14	iPd	21 51.50	-3.2
KHO		76.88	329	iPc	21 54.00	-2.9
		7.0s	2200.00nm			6.3mb X
	Z	16s	38.00um			6.8MszX
	N	16s	26.50um			
	E	16s	25.50um			
				ePcP	22 07.00	
				ePPP	26 38.00	
				eSKS	31 49.00	
				eSP	32 15.00	
BAG		76.90	280	ePd-	21 51.40	-5.8
		1.3s	208.00nm			6.0mb
				eS	31 37.00	
KUL		76.92	331	iPd	21 52.70	-4.1
	Z	15s	57.60um			7.0MszX
	N	13s	31.30um			
	E	14s	14.90um			
				ePcP	22 03.30	
				ePP	24 46.80	
				iS	31 38.30	
				eSKS	31 56.30	
SKO		76.93	9	iPd	21 53.30	-3.5
		1.8s	1230.00nm			6.7mb
				iPcP	22 02.80	
				iS	31 43.00	
DIM		77.11	6	eP	21 56.00	-1.7
MTA		77.16	351	iPd	21 54.00	-4.0
	Z	22s	25.00um			6.5Msz
	N	22s	30.00um			
	E	22s	5.00um			
				iPcP	22 04.00	
				ePP	24 44.00	
				eS	31 40.00	
BKR		77.23	352	iPd	21 56.00	-2.6
		4.0s	8200.00nm			7.1mb X
	N	22s	23.00um			
				iPcP	22 04.00	
				iPP	24 56.00	
				iPPP	26 40.00	
				iS	31 44.00	
				iScS	32 06.00	
ALI		77.29	26	iP+	21 57.50	-1.3
				iPP	25 04.50	
				eS	31 51.50	
KMI		77.47	299	P-	21 55.00	-5.3
	E	16s	38.70um			
				pP	22 11.00	57kmX
				sP	22 18.00	
				PP	24 53.06	
				PPP	26 43.00	
				iS	31 42.00	
				SKS	31 59.00	
				sS	32 10.00	
				PS	32 26.00	
BRT		77.65	12	iPc	21 57.50	-3.2
VAY		77.66	8	iPd	21 57.50	-3.3
CRT		77.70	29	iPd	22 00.00	-1.2
				iS	32 17.00	
OHR		77.74	9	iP	21 57.40	-3.9
				iPcP	22 08.00	
				eS	31 53.60	
SGO		77.76	14	iP	21 58.00	-3.3
KNT		77.84	8	ePd	21 58.80	-3.0
SRS		77.93	7	ePd	21 58.90	-3.4
MAL		77.95	30	iP-	22 01.00	-1.4
				ipP	22 11.00	32kmX
				i	23 33.00	
				iPP	25 06.00	
				iS	31 58.00	
BAK		77.99	347	iPc	22 00.00	-2.6
		4.0s	2800.00nm			6.7mb X
				eS	31 55.00	
KDE		78.03	1	eP	21 54.30	-8.5
KRV		78.08	350	iP	21 59.00	-4.1
				ePcP	22 09.00	
				iS	31 50.00	
LEN		78.16	351	iPd	22 01.00	-2.8
		2.0s	600.00nm			6.3mb
				iPP	25 00.00	
				iS	31 53.00	
OCP		78.19	279	eP	21 56.60	-7.4
KVT		78.21	358	iP	22 00.60	-3.3
ISK		78.21	3	eP	22 00.60	-3.2
ALM		78.29	28	iPc	22 02.70	-1.6
		1.5s	2.30nm			4.0mb X
	N	26s	0.30um			
	E	22s	0.50um			
				i	22 11.80	
				iPP	25 12.90	
				iS	32 12.00	
PPN		78.31	182	iP	22 01.60	-2.9
				ipP	22 14.40	43kmX
AFR		78.32	183	iP	22 01.50	-3.0
		1.2s	400.00nm			6.3mb
				ipP	22 14.20	43kmX
PPT		78.35	182	iP	22 01.70	-3.0
		1.2s	380.00nm			6.3mb
				ipP	22 14.70	44kmX
THE		78.37	8	iPd	22 01.20	-3.5
PAE		78.44	182	iP	22 02.30	-2.9
		1.2s	450.00nm			6.4mb
				ipP	22 15.20	44kmX
HRT		78.47	2	iP	22 02.60	-2.7
YLV		78.72	3	iP	22 03.60	-3.1
LIT		78.87	8	iPd	22 03.60	-3.9
EDC		78.90	4	iPd	22 04.50	-3.1
GPA		79.02	2	eP	22 04.60	-3.7
KVG		79.11	244	eP	22 04.00	-5.1
GRS		79.22	349	iPd	22 06.00	-3.6
		2.0s	380.00nm			6.1mb
	Z	19s	25.00um			6.6Msz
	N	19s	12.00um			
	E	19s	14.00um			
				iPcP	22 13.60	
				iS	32 03.00	
VAN		79.24	340	iPd	22 06.00	-3.5
		6.0s	2500.00nm			6.4mb X
				ePcP	22 16.00	
				ePP	25 10.00	
				eS	32 06.00	
EZN		79.36	5	iPc	22 05.80	-4.3
RAB		79.96	242	iPd-	22 08.80	-4.9
MOM		80.14	247	eP	22 10.00	-4.6
PAA		80.46	238	eP	22 13.00	-3.4
MHI		80.60	338	iPd-	22 14.70	-2.3
				e	22 24.00	
				eSn	32 22.00	
TAB		80.64	349	iP-	22 14.00	-3.2
IZM		80.82	4	iPd	22 13.90	-4.1
IFR		80.83	31	iP	22 15.50	-2.8
ATH		81.07	7	iPd	22 16.00	-3.2
				eS	32 24.00	
HNR		81.52	233	eP-	22 17.00	-4.8
				eS	32 27.00	
CIN		81.65	4	iPc	22 19.00	-3.2
KKN		81.83	315	iPd	22 20.00	-3.7
BCK		81.84	2	eP	22 20.00	-3.4
PKI		81.99	315	iPd	22 20.80	-3.9
		0.5s	30.00nm			5.6mb
DMN		82.06	315	iPd	22 21.40	-3.5
TEN		82.33	42	ePd	22 23.80	-2.1
				ePP	25 41.80	
				iS	32 57.50	
IR7		82.53	346	eP	22 24.00	-3.1
DAV		82.53	271	eP-	22 22.00	-5.2
				eS	32 36.00	
KHI		82.85	339	eP	22 26.00	-2.9
WWW		83.21	250	e(P)	22 32.00	1.3
NDI		83.61	322	iPd	22 28.00	-4.6
				iS	32 45.00	
JAY		83.62	253	ePc	22 29.40	-3.4
		1.5s	321.00nm			6.3mb
LAT		84.42	246	eP	22 33.00	-3.7
RKT		84.42	169	iP	22 33.40	-3.1
		1.3s	345.00nm			6.4mb
CHG		84.66	300	iPd	22 34.00	-4.0
		1.8s	107.00nm			5.8mb
				eS	32 56.00	
QUE		84.96	331	iP-	22 36.00	-3.6
				eS	32 00.00	
LMG		85.92	244	eP	22 40.00	-4.4
PVC		86.20	222	iPd	22 40.20	-5.3
PMG		86.80	244	eP	22 43.00	-5.5
PCT		87.26	296	eP	22 48.30	-2.6
		1.0s	20.70nm			5.3mb
JER		87.52	358	ePd	22 49.50	-2.5
KKM		87.97	279	ePd	22 51.10	-3.3
SHI		88.24	343	eP	22 52.00	-3.7
AAI		90.61	264	eP	23 03.00	-3.7
NOU		91.07	222	iPc	23 14.00	5.5
				ScS	33 52.50	
HUA		91.86	112	iPd	23 12.70	-0.2
HYB		93.72	317	eP	23 16.00	-5.1
POO		94.17	321	iPd	23 19.40	-3.7
SNG		94.27	293	iP	23 20.00	-3.6
		2.0s	471.00nm			6.6mb
				iS	33 54.00	
CTA		96.69	240	iPd-	23 30.90	-3.5
		1.5s	165.00nm			6.3mb
				i(PP)	27 15.00	
				iS	34 10.00	
				i	34 50.00	
				i	41 19.00	
MTN		97.16	257	eP	23 32.00	-4.6
GBA		97.64	316	Pc	23 34.80	-4.1
		0.7s	12.40nm			5.6mb
ISO		100.15	246	ePdiff	23 46.00	-4.1
TRT		101.65	275	iPdiff	23 52.00	-4.9
WB2		101.82	250	ePdiff	23 52.80	-4.8
				e	27 11.70	
WRA		101.83	250	Pdiff	23 55.00	-2.6
		0.9s	3.40nm			5.0mb X
YJA		105.20	108	ePdiff	24 09.60	-3.5
MNG		105.78	209	PKP	28 23.00	-4.4
WEL		106.58	209	Pdiff	24 18.00	-0.2
				PP	28 38.00	
				S	36 24.00	
				SP	37 55.00	
				PS	37 58.00	
				e	38 59.00	
KIC		106.70	39	ePKP	28 25.80	-4.1
RHP		110.38	211	ePKP	28 31.20	-4.8
MSZ		111.47	213	PKP	28 53.00	15.1
TOO		112.42	232	iPKPd	28 34.80	-5.3
TACH		112.64	119	iPKP	28 50.20	9.6
CHCH		113.00	119	iPKPc	28 45.50	4.2
BNG		113.78	16	iPKPd	28 38.50	-4.9
		0.6s	15.00nm			
MEK		114.96	260	iPKPc	28 39.80	-5.5
KLG		117.07	255	iPKPd	28 44.00	-5.2
BAL		119.17	259	iPKPd	28 48.20	-5.0
KLB		119.49	258	iPKPd	28 49.00	-4.7
NAI		120.32	355	ePKP	28 58.00	1.9
MUN		120.55	259	iPKPc	28 50.50	-5.2
NWAO		120.84	257	iPKPd	28 51.70	-4.6
		0.6s	47.00nm			

12d 15h

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NPA    133.89 351 ePKP  29 18.00  -3.7
                  epPKP 32 01.00
TET    135.10 359 iPKP  29 20.00  -4.1
        1.3s      0.26nm
                  ipPKP 34 04.00
KRI    135.80   4 ePKP  29 22.00  -3.5
                  ipPKP 29 36.00
                  iSKP  32 07.00
MTD    135.80   2 ePKP  29 22.00  -3.4
                  iSKP  32 05.00
AVY    136.63 339 ePKP  29 20.00  -7.1
DRV    138.07 215 ePKP  29 20.00  -8.1
BUL    139.05   6 iPKPd 29 31.00  -0.5
     Z  22s     12.60um          6.6Msz
     N  21s     10.80um
     E  21s      7.17um
                  iSKP  32 19.00
SBA    141.46 194 iPKP  29 25.90  -8.1
SLR    144.58   7 ePKP  29 34.20  -6.8
     Z  21s     24.40um          7.0Msz
PRE    144.59   7 iPKPd 29 35.50  -5.6
        2.0s   *******nm
KSR    144.61   9 iPKPd 29 35.50  -5.6
BPI    145.00   8 iPKPd 29 36.60  -5.2
EVA    145.39   6 iPKPd 29 38.10  -4.4
BFS    145.63  10 iPKPd 29 38.90  -3.9
        1.5s    500.00nm
PRY    145.71   9 iPKPd 29 40.00  -3.0
SWZ    145.78  12 iPKPc 29 39.50  -3.5
JOZ    146.42   1 iPKPd 29 39.70  -4.2
VIR    146.81  10 ePKP  29 41.00  -3.7
SEK    147.11   9 iPKPc 29 41.50  -3.7
HVD    149.18  12 iPKPd 29 44.20  -4.2
        1.6s    210.00nm
SUR    150.28  21 iPKPc 29 46.70  -3.4
        0.5s     56.30nm
     Z  21s     40.60um          7.2Msz
TUH    150.86  24 ePKP  29 48.50  -2.1
SPA    150.86 180 ePKPc 29 43.50  -6.3
        1.0s    465.00nm
     Z  20s     11.50um          6.7Msz
CER    150.95  24 ePKP  29 49.00  -1.8
GRM    151.97  11 ePKP  29 44.00  -8.4
        1.4s    560.00nm
     Z  20s     12.60um          6.7Msz
MAW    165.54 230 ePKP  30 03.00  -3.8
SYO    171.52 196 ePKP  30 05.00  -5.5
       518 obs. associated

   AUG  06, 1983  15h 43m 52.59± 0.08s
   40.130 N ± 1.4km   24.721 E ± 1.0km
   DEPTH =  10.0km  (geophysicist)
   6.2mb (120 obs.)  7.0Msz ( 16 obs.)
 AEGEAN SEA                        (365)
      Slight damage (VI) on Limnos and
      to four monasteries in the Mount
      Athos area. Also felt (VI) on
      Thasos and Lesvos. Felt (V)
      throughout much of northern
      Greece. Felt strongly in
      southern Bulgaria and
      northwestern Turkey.

OUR      0.60 290 iPgd  44 05.80   1.1
PAIG     0.82 256 iPgd  44 08.90   0.4
PLG      1.01 284 ePn   44 12.50   0.8
SOH      1.25 304 iPgc  44 16.60   0.7
SRS      1.31 319 ePg   44 17.90   1.1
THE      1.43 291 iPbd  44 19.30   0.7
                  eSb   44 38.40
PRK      1.49 126 ePKP  44 18.50  -0.8
KDZ      1.58  17 iPc   44 20.00  -0.7
LIT      1.71 270 iPnd  44 22.20  -0.4
KNT      1.73 307 ePnd  44 23.60   0.7
GRG      1.95 296 iPnc  44 26.80   0.7
PLD      1.97 360 iPc   44 26.00  -0.4
DIM      2.02  19 iP    44 26.00  -1.1
VAY      2.02 307 iPn   44 28.30   1.2
PTL      2.18 198 iPnc  44 27.70  -1.8
KZN      2.27 275 iPn   44 31.00   0.3
ATH      2.29 200 iPn   44 30.00  -1.0
                  iSn   44 56.50
EDC      2.42  84 iPn   44 31.40  -1.4
IZM      2.62 130 iPn   44 34.50  -1.3
VTS      2.72 336 iPc   44 38.00   0.9
DMK      2.85  53 iPn   44 36.90  -2.1
JAN      3.01 262 iPnc  44 40.70  -0.6
PVL      3.03   6 iPc   44 42.00   0.5
DST      3.05  99 iPn   44 40.00  -1.8
SKO      3.09 308 iPnd  44 43.00   0.7
                  iPg   44 56.00
                  iSn   45 26.30
APE      3.12 168 ePn   44 40.70  -2.1
OHR      3.14 289 iPnd  44 43.80   0.7
RLS      3.27 232 iPnc  44 44.50  -0.4
IST      3.38  73 iPd   44 44.00  -2.5
ISK      3.43  73 iPn   44 44.90  -2.3
YLV      3.58  82 iPnd  44 47.60  -1.8
CIN      3.64 133 eP    44 48.50  -1.7
ITM      3.67 217 ePn   44 49.50  -1.1
VLS      3.76 240 iPn   44 53.50   1.6
HRT      3.84  78 iPn   44 51.40  -1.6
YER      4.09 136 iPn   44 55.20  -1.3
CGN      4.14  13 iPd   44 56.50  -0.7
GPA      4.28  86 iPn   44 57.40  -1.9
ALT      4.30 103 iPn   44 58.20  -1.4
BUC1     4.32  13 iPd   45 02.30   2.5
PSN      4.39  35 iPd   44 59.00  -1.7
DRA      4.56 356 iPd   45 03.00  -0.1
SRE      4.67 347 iPc   45 05.00   0.3
VAM      4.73 185 ePn   45 03.10  -2.6
ARG      4.74 144 ePn   45 04.60  -1.2
CVD      4.87  29 iP    46 05.00  57.5X
NPS      4.91 171 iPnd  45 05.80  -2.4
CLO      5.14 345 eP    45 10.00  -1.4
CMP      5.14   3 iPc   45 10.00  -1.4
LCI      5.18 274 iPnd  45 10.00  -2.0
COZ      5.20 357 iPc   45 07.00  -5.3X
SSR      5.22 336 iP    45 12.00  -0.5
ELL      5.29 128 iPn   45 13.80   0.1
BCK      5.30 118 iPn   45 12.60  -1.2
MLR      5.43   9 iPc   45 15.20  -0.5
BRT      5.78 280 ePn   45 20.00  -0.4
DEV      5.90 348 iPc   45 22.00  -0.1
ORI      6.34 272 iPnd  45 28.80   0.4
BIR      6.49  18 iP    45 03.00 -27.4X
BAC      6.63  13 iPd   45 31.50  -0.9
CJR      6.63 353 iPc   45 32.10  -0.4
KAS      6.98  77 iPnd  45 34.50  -2.9
                  i     45 38.00
                  i     45 44.50
SGO      7.20 276 iPnd  45 39.50  -1.0
BLY      7.24 312 Pn    45 42.70   1.8
                  Sn    47 15.20
KIS      7.51  22 iPc   45 44.00  -0.7
                  iS    47 02.00
CEI      7.73 349 eP    45 50.00   2.3
DUI      7.92 284 iPnc  45 49.00  -1.5
MEI      8.06 252 iPnd  45 48.00  -4.5X
BUD      8.42 333 ePnc  45 55.00  -2.5
SIM      8.44  52 iPc   45 56.00  -1.8
       9.0s   *******nm          7.4mb X
     Z 24s    320.00um          6.7Msz
     N 24s    620.00um
     E 24s    520.00um
                  eS    47 27.00
PSZ      8.53 338 ePnc  45 57.00  -2.0
GIB      8.60 259 iPnd  45 57.00  -3.1X
KVT      8.67  80 iP    45 59.00  -2.0
AQU      8.81 288 iPnd  46 01.20  -1.8
JOS      8.88 342 iPnc  46 02.10  -1.7
SRO      8.96 331 iP    46 03.40  -1.5
                  iS    46 49.80
HRB      9.05 331 eP    46 08.30   2.1
     E   10s  1800.00um
                  e     46 28.70
                  e     47 22.30
                  e     47 47.10
                  e     48 00.00
POI      9.19 289 ePn   46 11.20   3.1X
RMP      9.25 284 ePn   46 07.50  -1.4
MNS      9.35 288 ePn   46 08.50  -1.8
CEY      9.40 310 ePd   46 11.00  -0.1
LJU      9.51 312 ePd   46 12.50   0.0
                  i     46 16.20
                  eS    48 00.00
SPC      9.60 342 eP    46 13.00  -0.9
ERC      9.66 261 iPnd  46 12.50  -2.1
LVV      9.70 357 iPc   46 15.50   0.4
                  eS    48 03.00
ZST      9.74 328 iP    46 15.20  -0.5
TRI      9.78 308 ePn   46 16.00  -0.2
VIE     10.09 326 iP-   46 20.70   0.3
                  i     48 22.20
                  i     49 01.60
                  i     49 10.00
                  i     49 25.10
VKA     10.12 326 eP    46 19.00  -1.9
                  i     46 52.00
                  i     47 10.70
                  i     49 46.00
ANN     10.43  59 iPc   46 21.00  -4.2X
                  iS    48 25.00
KRA     10.48 343 ePc   46 25.10  -0.7
       2.2s  6210.00nm          7.6mb X
                  i     46 30.30
                  i     46 34.40
                  iS    48 26.00
                  i     49 45.80
FIR     10.67 294 iPnd  46 28.00  -0.5
                  i     47 43.00
                  iSn   48 12.00
KBA     10.78 314 ePd   46 29.50  -0.6
                  i     46 35.80
KMR     10.98 320 eP+   46 16.50 -16.2X
HRI     11.18 124 eP    46 32.00  -3.6X
MGI     11.55 128 eP    46 37.40  -3.1X
HLW     11.59 150 iP+   46 38.00  -3.1X
                  eS    56 18.00
SOC     11.70  68 iPc   46 38.00  -4.6X
       1.8s  1500.00nm          7.0mb
                  iS    48 42.00
JER     11.89 131 ePc   46 43.50  -1.7
KHC     11.99 322 iPc   46 45.60  -0.8
                  i     46 54.50
                  e     47 07.50
OGA     12.00 309 iPd   46 45.90  -0.9
CVF     12.16 287 ePd   46 47.90  -0.9
PRU     12.19 327 eP    46 48.50  -0.6
                  e     46 55.50
                  i     47 11.00
                  i     47 36.50
                  S     48 55.00
KSP     12.23 334 ePc   46 49.50   0.0
       1.4s  1700.00nm          7.1mb
                  i     46 51.20
                  i     49 59.00
GAP     12.29 311 eP    46 49.50  -1.0
WET     12.33 321 eP    46 50.40  -0.6
WAR     12.38 349 eP+   47 02.00  10.4X
                  e     47 15.00
                  e     47 32.00
                  e     49 23.00
                  e     49 47.00
VG1     12.48 298 ePn   46 51.00  -2.0
FUR     12.55 314 eP    46 53.00  -0.9
VDL     12.79 305 ePd   46 55.50  -1.8
TMA     13.02 303 ePd   46 57.00  -3.4X
BRG     13.12 329 eP    47 02.00   0.6
                  i     47 16.00
                  iS    49 24.00
SAX     13.20 308 ePd   47 01.30  -1.5
LLS     13.24 306 ePd   47 02.00  -1.4
GRF     13.50 320 iPc   47 05.30  -1.3
       2.0s  1600.00nm          6.7mb
     Z  15s  2760.00um          6.6Msz
                  e     47 18.80
                  eS    49 40.00
MMK     13.59 301 ePd   47 05.00  -3.0X
HOF     13.60 323 eP    47 06.90  -1.0
CLL     13.83 328 iPc   47 09.70  -1.2
       2.1s   305.00nm          5.8mb
                  i     47 27.90
                  eS    49 52.00
ZUL     13.88 307 ePd   47 09.50  -2.1
FRF     13.90 290 eP    47 11.90   0.0
       1.8s  1720.00nm          6.6mb
SLE     13.94 309 ePd   47 10.00  -2.4
MOX     13.95 323 eP+   47 12.00  -0.5
                  iS    49 45.00
DIX     13.96 301 ePd   47 11.00  -2.0
LMR     13.97 289 eP    47 13.40   0.6
       1.6s  1120.00nm          6.4mb
STU     14.04 313 ePd-  47 12.00  -1.6
       1.5s   833.00nm          6.3mb
LRG     14.09 290 eP    47 14.90   0.5
       1.6s  2350.00nm          6.7mb
PYA     14.16  68 iPd   47 15.00  -0.3
       1.8s   950.00nm          6.2mb
                  iS    49 55.00
BKR     14.30  77 iPd   47 17.60   0.3
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06d 15h

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      1.3s   330.00nm          5.9mb
    N  16s   156.00um
    E  16s   370.00um
BUH   14.54 311 eP    47 18.80  -1.4
LEN   14.58  81 iPd   47 23.00   2.0
BRN   14.62 331 iPc   47 21.00  -0.1
                eS    50 10.00
BAF   14.88 307 iPd   47 23.60  -1.2
ECH   14.95 309 iPd   47 24.00  -1.6
MSL   14.95  99 iPc   47 28.00   2.4
                iPP   47 42.50
                iS    50 31.60
                ePcP  52 12.00
                eLQ   53 09.50
                e     53 39.00
CDF   14.97 309 ePd   47 24.30  -1.6
      1.5s  1650.00nm          6.3mb
BSF   15.01 307 ePd   47 25.10  -1.3
      0.9s   422.00nm          5.9mb
GWF   15.03 312 iPd   47 26.40  -0.3
ERE   15.13  83 iPd   47 28.50   0.5
                eS    50 17.00
TNS   15.25 317 ePc   47 29.40  -0.1
                iS    50 35.00
                e     52 26.00
MTA   15.26  78 iPd   47 29.40  -0.3
                iS    50 22.20
HAU   15.35 307 ePd   47 29.60  -1.2
      1.0s   606.00nm          5.9mb
GRO   15.97  72 iPd   47 40.00   1.2
      1.5s  4500.00nm          6.4mb
    Z  12s   133.00um          6.5MszX
    N  12s   670.00um
    E  12s   230.00nm
WLF   16.21 312 P-    47 46.00   4.2X
                S     50 39.00
BNS   16.34 317 iPc   47 45.30   1.9
                eS    51 02.20
KRV   16.47  81 iPd   47 47.00   1.7
SMF   16.49 300 iPd   47 44.50  -1.0
      1.7s  2350.00nm          6.0mb
LBF   16.50 301 iPd   47 45.40  -0.2
      1.7s  1630.00nm          5.9mb
GRS   16.62  85 iPd   47 48.20   0.9
      2.0s   270.00nm          5.0mb X
                eS    50 51.00
LOR   16.66 302 iPd   47 47.40  -0.2
      1.4s   980.00nm          5.7mb
HAM   16.70 328 iPc   47 48.50   0.5
SSF   16.83 301 iPd   47 49.30  -0.4
      2.0s  1930.00nm          5.9mb
AVF   16.86 300 ePd   47 49.30  -0.7
      2.0s  3930.00nm          6.2mb
ENN   16.89 315 eP    47 53.50   3.0X
      1.8s  1300.00nm          5.8mb
                *     47 56.50
                i     47 59.20
                eS    51 11.00
TAB   16.90  90 iP-   47 52.00   1.2
OBN   17.00  24 iPc   47 46.80  -4.9X
      2.0s  9200.00nm          6.6mb
                iS    50 45.00
WTS   17.13 320 eP    47 56.00   2.6
      1.7s  2080.00nm          6.0mb
                i     47 58.90
                eS    51 17.00
BHD   17.17 107 ePd   47 56.00   1.9
                iPP   48 14.00
                ePPP  48 31.00
                eS    51 39.00
                *     53 35.00
                eLQ   55 16.50
MAK   17.23  73 iPd   47 57.40   2.7
      1.5s   500.00nm          5.4mb
                iS    51 13.20
MZF   17.23 298 ePd   47 54.00  -0.8
DOU   17.30 312 Pc-   47 58.50   2.9X
                *     48 03.60
                S     51 02.00
                PcP   52 52.40
CAF   17.36 293 iPd   47 56.50   0.1
TCF   17.50 298 iPd   47 58.10  -0.1
      2.5s  6250.00nm          6.3mb
COP   17.56 336 iPc+  47 57.30  -1.5
      1.1s  1270.00nm          6.0mb
                iS    51 09.00
WIT   17.70 322 eP    48 04.50   4.0X
UCC   17.77 314 Pc-   48 02.80   1.4
RJF   17.79 295 iPd   48 02.50   0.7
      2.6s  6340.00nm          6.3mb
MOS   17.80  24 iP    47 59.00  -2.8
      3.0s  *******nm          6.9mb
    Z  16s   228.00um
                iS    51 12.00
LPO   17.94 292 iPd   48 04.30   0.6
      1.8s  1720.00nm          5.9mb
LSF   17.95 298 iPd   48 04.30   0.5
      1.3s  1110.00nm          5.8mb
DBN   18.01 318 iP+   48 07.00   2.6
                iS    51 27.00
SHE   18.22  81 iPc   48 10.00   2.9X
LFF   18.29 293 iPd   48 08.70   0.7
      2.0s  3250.00nm          6.1mb
EPF   18.45 287 iPd   48 08.50  -1.5
      1.8s  1260.00nm          5.8mb
KER   18.71 101 eP    48 14.00   0.7
WFF   19.16 298 iPd   48 18.70   0.2
      1.3s  1580.00nm          6.1mb
BAK   19.21  81 iPc   48 20.00   0.9
      4.0s  *******nm          7.2mb X
                iS    51 45.00
MUD   19.26 333 iPc   48 19.00  -0.7
      1.0s   780.00nm          5.9mb
ALI   19.59 273 iP    48 23.50  -0.2
                eS    52 03.00
LDF   19.61 304 iPd   48 23.00  -0.9
      1.9s  4510.00nm          6.4mb
FLN   19.88 304 iPd   48 26.00  -0.8
      2.0s  4420.00nm          6.4mb
PUL   19.97   8 iPc   48 25.00  -2.6
      8.0s  *******nm          7.0mb X
    N  14s   500.00um
    E  14s   160.00um
                iS    52 04.00
GRP   20.02 303 iPd   48 27.50  -0.8
LPF   20.06 302 iPd   48 27.60  -1.0
UPP   20.25 350 iPc   48 28.00  -2.5
      1.5s   800.00nm          5.8mb
NUR   20.40 360 iP+   48 30.00  -2.1
      1.5s   994.00nm          5.9mb
                eS    52 00.00
IR7   20.87  94 ePd   48 36.80  -0.5
TEH   21.45  93 eP    48 52.00   8.8X
ALM   21.49 270 iPgd  48 41.90  -1.6
      1.8s    16.10nm          4.1mb X
    N  14s    28.00um
    E  11s    49.60um
                iPP   49 10.30
                iPPP  49 24.90
                iS    52 47.00
CRT   22.27 272 iPd   48 51.20  -0.1
SUF   22.64   2 iP    48 53.80  -0.8
      0.4s    38.80nm          5.3mb
MAL   23.03 271 iPd   48 47.50 -11.2X
      1.5s     3.00nm
                i     49 00.00
                iS    53 09.00
EKA   23.92 319 Pc    49 07.10  -0.1
      0.7s    90.30nm          5.5mb
ESY   23.93 320 ePc   49 07.90   0.6
      1.4s  1520.00nm          6.4mb
EBL   24.07 320 iPc   49 09.40   0.7
      1.4s  1810.00nm          6.5mb
KJF   24.17   3 iPc   49 09.80   0.3
      1.9s   892.00nm          6.0mb
                eS    53 24.00
EDI   24.22 320 iPc   49 11.00   1.0
                eS    53 36.60
EAU   24.31 320 iPc   49 11.80   0.8
      1.4s  2020.00nm          6.6mb
EDU   24.44 321 iPc   49 13.10   0.9
      1.4s  3690.00nm          6.8mb
ECP   24.48 310 iPc   49 12.80   0.2
      1.8s   230.00nm          5.5mb
SFS   24.48 271 iPd   49 12.00  -0.8
                iPP   50 40.00
                iS    53 20.00
                iSS   54 50.00
EBH   24.53 321 iPc   49 14.10   1.0
      1.4s  4900.00nm          7.0mb
ETA   24.54 311 iPc   49 13.80   0.6
      1.0s   110.00nm          5.5mb
ELO   24.74 321 ePc   49 15.80   0.6
      1.3s  2060.00nm          6.6mb
DDK   24.84 313 eP    49 18.20   2.1
      0.8s    24.00nm          4.9mb X
EAB   24.91 320 iPc   49 17.20   0.4
      1.3s  2110.00nm          6.7mb
DLE   24.92 312 iPc   49 18.90   2.0
      0.8s    32.00nm          5.1mb X
STS   24.98 287 ePnc  49 17.00  -0.6
      0.3s    35.00nm          5.5mb
                Sn    55 00.00
SHI   25.00 106 eP    49 18.00  -0.1
PTO   25.23 283 iP    49 20.50   0.6
                iS    53 31.00
DCN   25.36 312 iPc   49 23.00   2.0
      1.1s    74.00nm          5.3mb
ASH   26.13  84 iPc   49 29.30   0.9
      1.5s   760.00nm          6.2mb
    N  12s    32.60um
                ipP   49 38.00  31kmX
                ePP   50 12.00
                ePcP  52 52.00
                iSS   55 08.00
                eSSS  55 25.00
VAL   26.73 308 iP    49 34.00   0.3
                iS    54 08.00
SOD   27.31   2 iP    49 38.40  -0.6
ARU   27.44  42 iPc   49 39.30  -0.9
      3.0s  1800.00nm          6.3mb
    Z  14s   106.00um          6.6MszX
    N  10s   113.00um
    E  12s   169.00um
                epP   49 45.70  22kmX
                esP   49 55.70
                ePP   50 24.70
                ePPP  50 39.70
                ePcP  52 56.70
                eS    54 18.70
                eSSS  55 44.00
MHI   27.48  87 iPd-  49 41.10   0.2
      1.5s  2060.00nm          6.6mb
                eS    54 26.00
KHI   27.58  92 ePd   49 41.80  -0.2
APA   27.88   7 iPc   49 43.80  -0.3
      1.5s  1700.00nm          6.6mb
    Z  10s   340.00um          7.2MszX
                eS    54 25.00
SVE   28.64  42 iPc   49 50.00  -1.0
      2.2s   640.00nm          6.0mb
    Z  10s   210.00um          7.0MszX
    N  10s   316.00um
    E  10s   103.00um
                eS    54 40.00
KEV   29.71   2 iP    50 02.10   1.6
      0.6s   288.00nm          6.3mb
                eS    54 54.00
SAM   32.21  77 iPd   50 23.10   0.2
      7.4s  5700.00nm          6.6mb X
                ePP   51 34.80
                iPcP  53 14.20
                iS    55 37.00
                iSS   57 28.60
TDD   32.47 145 eP    50 29.20   3.9X
OBO   32.47 145 eP    50 29.60   4.3X
DAF   32.48 146 eP    50 28.20   2.8
SGM   32.68 146 eP    50 29.00   1.8
ARO   32.69 146 eP+   50 29.00   1.7
ATA   32.91 145 eP    50 33.00   3.9X
AAE   33.41 154 eP    50 34.60   0.8
TAS   33.52  73 ePd   50 34.00  -0.3
      1.5s   800.00nm          6.4mb
    Z  24s   104.00um          6.5MszX
                ePP   51 43.00
                ePPP  52 10.00
                iS    55 58.00
                iSS   57 54.00
DSH   33.85  78 iPd   50 37.60   0.4
      9.0s  9600.00nm          6.7mb X
                iPP   51 58.00
                eSSS  58 32.00
KUL   34.78  79 iPd   50 45.70   0.5
      5.3s  3400.00nm          6.5mb X
                iPPP  52 27.80
                iS    56 21.70
AKU   35.20 331 eP    50 46.20  -2.2
      2.1s  1890.00nm          6.6mb
                i     50 50.60
QUE   35.63  93 eP    50 51.80  -1.0
ANR   35.91  73 iPd   50 56.80   2.0
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TABLE 4-130

06d 15h

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      2.0s  2600.00nm          6.8mb
    Z  14s    58.00um          6.5MszX
    N  14s    95.00um
    E  14s    51.00um
                ePP   52 24.20
REY   36.11 327 iP    50 56.10   0.0
                i     51 00.70
KHO   36.25  79 eP    51 00.00   2.1
    Z  15s    30.00um          6.2MszX
    N  15s    40.00um
    E  15s    16.00um
                ePP   52 28.00
FRU   37.04  69 iPd   51 05.80   1.5
      1.8s  1980.00nm          6.6mb
    E  28s   208.00um
                iPF   52 33.00
                eSS   59 16.00
NRN   38.39  71 iPd   51 17.60   1.6
                eS    57 09.00
AAA   38.60  68 eP    51 19.50   2.1
      8.0s    11.50nm          3.6mb X
                iPP   52 47.10
                iS    57 17.90
                eSS   59 55.90
                eSSS  00 29.80
TLG   38.91  68 iPd   51 20.30   0.3
      1.8s   830.00nm          6.1mb
                ePP   52 54.00
                iS    57 21.00
KSH   38.94  74 Pd    51 21.00   0.6
                eS    57 25.00
SEW   39.55  56 iPc   51 26.70   1.5
      2.0s  1530.00nm          6.3mb
                esP   51 43.20
                iPP   53 05.60
                eS    57 30.10
DAG   41.16 346 iPc   51 37.70  -0.4
      1.4s    32.60nm          4.9mb X
                i     51 51.00
                i     57 29.00
KHE   42.40   8 iPc   51 50.00   1.8
      2.0s  1900.00nm          6.5mb
                iPP   53 22.00
                iS    58 12.00
NAI   42.66 162 iPc   51 53.00   1.7
      2.0s   529.00nm          5.9mb
KIC   42.76 226 iP    51 52.00   0.1
ELT   42.89  51 iPd   51 51.60  -0.9
      2.0s  1880.00nm          6.5mb
                eS    58 16.00
NRI   43.78  27 iPc   52 01.00   1.5
      1.5s   320.00nm          5.9mb
                ePP   53 41.00
                iPcP  53 52.00
                eSS   01 37.00
NDI   44.22  88 iPd   52 03.20  -0.4
      0.7s   103.00nm          5.8mb
    Z  20s    37.60um          6.3Msz
    E  22s    27.40um
                iPP   53 38.00
                iS    58 34.50
                iSS   01 43.00
POO   47.25 102 iPd   52 27.80   0.0
      1.3s   423.00nm          6.4mb
ALE   50.10 350 eP    52 42.10  -7.0X
      0.9s   130.00nm          5.9mb
DMN   50.79  85 iPd   52 54.80  -0.6
KKN   50.83  84 iPd   52 54.80  -0.8
      1.2s  1140.00nm          6.7mb
PKI   51.04  85 iPd   52 56.40  -1.0
      1.2s   810.00nm          6.5mb
HYB   51.47 100 ePd   52 58.00  -2.3
      1.0s   280.00nm          6.1mb
                eS    00 16.00
MOY   51.99  50 ePc   53 05.00   1.2
      1.7s   210.00nm          5.8mb
GBA   53.01 104 P     53 11.00  -0.9
      1.8s   393.00nm          6.0mb
IRK   53.73  49 iPc   53 16.00  -0.8
      1.8s   420.00nm          6.1mb
    Z  20s    97.70um          6.9Msz
    N  16s    55.60um
    E  22s    51.70um
                esP   53 32.00
                ePPP  56 30.00
                eS    00 50.00
ZAK   53.81  51 iPc   53 18.00   0.7
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      1.7s   560.00nm          6.3mb
    Z  15s    58.20um          6.8MszX
    N  12s    44.60um
    E  13s    82.30um
                ePcP  54 18.00
                ePPP  56 28.00
                eS    00 55.00
                eSS   04 28.00
STJ   54.18 305 eP    53 20.00  -0.1
      1.0s   551.00nm          6.5mb
LSA   54.32  79 iPd   53 21.00  -1.0
                iS    00 59.00
KOD   55.24 108 eP    53 30.00   1.4
GTA   56.03  65 Pc    53 33.20  -0.7
                S     01 22.00
FRB   56.25 328 eP    53 35.00   0.1
NPA   56.57 163 iPc   53 37.00  -0.7
      1.0s   390.00nm          6.4mb
                e     56 31.00
                eS    01 32.00
TET   56.59 170 eP    53 39.00   1.2
      4.0s     7.69nm          4.1mb X
                e     20 08.00
TIK   56.67  22 eP    53 37.50  -0.4
      1.5s  1040.00nm          6.6mb
    Z  16s   149.00um          7.2MszX
    N  17s    92.00um
    E  16s   135.00um
                esP   53 50.00
                ePcP  54 29.00
                ePP   55 49.00
                eS    01 32.00
                ePS   01 40.00
                eScS  03 16.00
                eSS   05 19.00
KRI   56.85 174 iPc   53 38.00  -1.8
                ipP   53 46.00  26kmX
BOD   56.88  40 eP    53 39.70   0.1
      1.0s   190.00nm          6.1mb
MTD   56.97 172 eP    53 41.00   0.3
                ipP   53 53.00  42kmX
SHL   57.02  83 iP    53 39.00  -2.3
                iS    01 32.50
SCH   59.21 318 eP    53 55.60  -0.4
      1.3s   633.00nm          6.6mb
BUL   60.07 176 iPc   54 01.00  -1.2
      1.2s   334.00nm          6.3mb
    Z  20s   118.00um          7.0Msz
    N  20s   136.00um
    E  20s   152.00um
                ipP   54 15.00  51kmX
                iS    02 26.00
LZH   60.42  66 P     54 04.50  -0.2
      8.5s   157.00nm          5.2mb X
    N  15s    73.90um
    E  10s    63.70um
                pP    54 10.50  20kmX
                PP    55 50.00
                S     00 30.00
                SS    03 50.00
TUP   61.28  42 iP    54 11.80   1.8
      1.3s   240.00nm          6.2mb
MBC   61.66 351 ePc   54 12.50   0.1
YAK   61.80  31 iPc   54 11.50  -2.0
      1.4s   490.00nm          6.5mb
    Z  17s    90.00um          7.0MszX
    N  13s    97.20um
    E  11s    33.70um
                iPP   56 32.30
                iPPP  57 56.30
                eS    02 35.30
                iPS   02 52.30
                iSS   06 32.90
                iSSS  09 19.50
BTO   62.35  59 Pc    54 18.00   0.3
                S     02 34.50
AVY   62.54 155 iPc   54 22.20   3.2X
CD2   63.03  71 iPd   54 21.50  -0.7
                S     02 53.00
RHC   63.24  58 Pd    54 23.40  -0.1
XAN   65.04  66 Pc    54 35.00  -0.3
KMI   65.46  77 Pd    54 37.00  -1.3
    E  20s    61.40um
                pP    54 49.00  41kmX
                PcP   56 10.00
                PP    56 58.00
                PcS   58 57.00
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                S     03 21.00
                ScS   04 23.00
TIY   65.46  61 Pc    54 38.00   0.0
                S     03 19.00
SLR   65.61 176 iPc   54 37.60  -1.3
      1.3s   558.00nm          6.6mb
CHG   66.22  85 iPd   54 41.20  -1.8
      1.2s   193.00nm          6.2mb
                eS    03 28.00
CHTO  66.22  85 iPc   54 42.00  -1.0
EVA   66.42 176 iPc   54 45.00   0.9
CNG   66.44 173 iPc   54 50.00   6.0X
      1.3s   300.00nm          6.3mb
                eS    03 49.00
BJI   66.64  57 eP    54 45.00  -0.4
      2.0s   190.00nm          5.9mb
                pP    54 51.00  19kmX
                sP    54 56.00
                eS    03 34.00
BNH   66.91 309 eP    54 48.00   0.9
BDT   67.19  86 eP    54 47.20  -1.9
      1.1s   317.00nm          6.4mb
JOZ   67.58 173 iPc   54 50.70  -0.5
GYA   67.62  74 P     54 50.60  -1.3
                S     03 45.00
MNT   67.78 311 iPd   54 56.00   3.5X
      2.2s  1030.00nm          6.6mb
KHT   68.36  89 eP    54 57.00   0.5
RSNY  68.86 311 eP-   55 00.00   0.8
BRW   68.87   1 P     55 00.10   1.3
NST   69.00  87 iPc   54 59.80  -0.6
OTT   69.04 312 eP    55 03.00   2.7
      1.2s   403.00nm          6.5mb
SEY   69.14  23 iPc   55 00.70   0.1
      2.0s  1140.00nm          6.7mb
    Z  20s    78.40um          6.9Msz
    N  20s    82.00um
    E  22s    76.80um
                isP   55 12.70
                ePcP  55 26.70
                ePP   57 39.70
                eS    04 08.70
FCC   69.18 331 iPd   55 04.30   3.4X
                pP    55 27.30  89kmX
TIA   69.42  60 P     55 01.90  -0.9
                PP    57 35.00
                S     04 03.50
CN2   70.16  49 Pc    55 06.50  -0.7
                S     04 12.40
SNY   70.23  52 iPc   55 07.00  -0.6
                PP    57 41.00
                iS    04 17.00
                SS    09 00.00
NNT   70.57  90 eP    55 08.80  -1.3
PCT   70.58  87 eP    55 08.70  -1.4
      1.1s   134.00nm          6.0mb
INK   70.67 352 eP    55 09.50  -0.3
      1.2s   237.00nm          6.2mb
DL2   70.76  55 eP    55 11.00   0.1
                PP    57 47.00
                S     04 28.00
MGD   70.77  25 iPc   55 10.50  -0.1
      1.2s   450.00nm          6.5mb
                isP   55 24.00
                iPcP  55 30.00
                iPP   57 46.00
                iS    04 28.00
                iPS   04 54.00
                eSSS  12 00.00
WHN   70.80  66 P     55 11.00  -0.2
                S     04 25.00
ILT   70.85   9 iPc   55 11.00   0.1
      1.5s   140.00nm          5.9mb
    Z  22s    89.00um          7.0Msz
    N  22s    45.00um
    E  22s    61.00um
                ipP   55 18.00  22kmX
                iPcP  55 34.00
                iPP   57 54.00
                iPPP  59 26.00
                eS    04 20.00
                iScS  05 10.00
MDJ   72.01  47 eP    55 18.50   0.2
                PP    58 03.00
                eS    04 41.00
SUR   72.24 183 iPc   55 26.40   6.6X
      1.0s   100.00nm          5.9mb
```

06d 15h

YKC	72.61	341	eP	55	21.00	-0.6				eS	05	55.00					e	57	01.00				
YKA	72.63	342	eP	55	25.30	3.6X				ePS	06	40.00		RLO	86.02	315	eP	56	34.70	0.2			
RSNT	72.64	342	iPc	55	22.70	1.0	ANP	79.08	66	iP+	56	03.00	4.1X	LRM	86.23	332	ePc	56	36.80	1.1			
NJ2	73.02	62	Pd	55	23.00	-1.4				iS	05	59.00		PHC	86.31	343	eP	56	39.00	3.4X			
			S	04	51.00		SVW	79.12	0	P	55	59.80	1.4	GBO	86.34	315	eP	56	36.70	0.6			
GRM	73.10	178	iPc	55	27.00	2.3	SAP	79.34	42	eP	56	02.00	2.1	ADK	86.48	13	e(P)	56	43.50	7.0X			
	0.9s	437	00nm			6.5mb				eS	05	57.00		NKI	86.56	8	(P)	56	37.40	0.6			
	Z 20s	56.70um				6.8Msz	PPI	79.36	100	eP	56	00.00	-0.4	TUL	86.63	316	eP	56	38.50	1.0			
CAI	73.33	246	ePd	55	20.50	-6.0X	PCA	79.37	352	(P)	56	02.40	2.6		1.0s	236.00nm				6.4mb			
ELF	73.56	313	P	55	30.25	2.8	SHNJ	79.69	54	P	56	04.00	2.1		Z 19s	2.70um				5.7MszX			
LDN	73.59	313	P	55	30.25	2.6	NGS	79.83	56	eP	56	06.00	3.3X				e	56	54.80				
DLA	73.92	313	P	55	31.50	1.9				eS	06	16.00		PGC	87.22	340	eP	56	43.70	3.6X			
IMA	74.13	359	(P)	55	31.80	1.3	KGM	79.98	96	ePc	56	03.40	-0.4	BDW	87.70	328	eP	56	43.00	0.1			
VLA	74.25	47	iPd	55	30.00	-1.4	SKR	80.06	29	eP	56	04.60	1.0	ACO	87.79	318	e(P)	56	44.00	0.9			
			ePP	58	17.00			6.0s	2000.00nm				6.3mb X		1.3s	88.60nm				5.9mb			
			ePPP	00	07.00			Z 18s	75.60um				7.1Msz	OCO	87.82	316	ePd	56	47.20	3.9X			
			iS	05	03.00			N 18s	64.80um					ATO	87.95	317	e(P)	56	47.30	3.4X			
			iSS	09	47.00			E 18s	97.00um					GLD	88.32	324	e(P)	56	47.00	1.2			
LHC	74.27	321	eP	55	35.00	3.5X				iPP	59	09.80			1.5s	259.00nm				6.3mb			
GZH	74.50	73	Pc	55	33.00	-0.1				iS	06	06.00			Z 20s	150.00um				7.4Msz			
			PPP	00	13.00		EDM	80.21	336	ePc	56	05.00	0.5	LGP	88.38	74	iP	56	45.00	-1.2			
			S	05	08.00		AOMJ	80.62	44	P	56	08.00	1.2	SDV	88.41	280	eP	56	49.00	2.4			
RSON	74.62	325	eP	55	34.60	1.2	KUR	80.91	37	iPc	56	08.00	-0.2	GOL	88.43	324	eF+	56	46.80	0.3			
SNG	74.63	94	iPd-	55	28.00	-6.0X		1.2s	480.00nm				6.4mb		1.3s	70.80nm				5.8mb			
	1.5s	722.00nm				6.5mb				ePP	59	19.00		LEM	88.95	100	eP	56	50.00	0.9			
			iS	04	47.00					iS	06	17.00			1.8s	364.00nm				6.3mb			
MRG	75.06	309	iPd	55	39.30	3.1X				ePPS	07	25.00					eS	07	24.00				
			e	05	25.00					eSS	11	24.00		UAV	88.97	280	eP	56	54.20	4.9X			
FFC	75.10	331	eP	55	36.00	-0.2	RSCP	81.07	309	ePd-	56	13.00	3.7X	RDJ	89.02	239	eP	56	52.40	3.4X			
	1.0s	126.00nm				5.9mb	HJH	81.39	45	P	56	10.70	-0.1	BMA	89.49	239	eP	56	53.80	2.5			
COL	75.14	357	eP	55	37.00	0.8	KAGJ	81.50	56	P	56	11.00	-0.6				e	56	58.20				
			iS	05	18.00		TKSJ	81.59	52	P	56	12.50	0.5				i	57	02.30				
FBA	75.14	357	P	55	36.90	0.7	SKH	81.62	46	P	56	16.00	4.0X	CNP	89.49	74	ePd	56	54.00	2.5			
SSE	75.18	62	iPc+	55	36.00	-1.0	TSRJ	81.68	50	P	56	11.00	-1.4	PLP	90.60	75	eP	57	02.00	5.4X			
	8.0s	4.80nm				3.6mb X	SIT	81.73	349	P	56	14.40	2.2	COR	90.90	338	eP	57	02.00	4.4X			
	Z 16s	45.50um				6.9MszX	SES	81.85	333	ePc	56	14.00	0.8	HKT	91.11	312	eP	57	03.00	4.2X			
	N 13s	10.80um						1.2s	353.00nm				6.3mb				eS	00	49.00				
	E 14s	36.00um					MTMJ	82.01	48	P	56	14.30	0.0	VAO	91.57	241	eP	57	01.90	0.9			
			ePP	58	26.00		OSK	82.13	51	eP	56	18.00	3.2X				e	57	06.30				
			ePPP	00	14.00					S	06	39.50					e	57	10.10				
			S	05	12.00		MIY	82.13	44	eP	56	22.00	7.3X	LUB	91.61	318	eP	57	05.00	3.8X			
			i	05	18.00					eS	06	28.00		ATX	91.99	313	eP	57	05.00	2.1			
ANM	75.34	4	P	55	40.00	2.7	MIY	82.13	44	P	56	15.00	0.3	ALO	92.79	322	eP	57	06.00	-0.8			
TSI	75.41	98	ePd	55	39.50	1.0	YAMJ	82.14	46	P	56	15.30	0.5		1.0s	37.50nm				5.8mb			
AAM	75.46	313	eP	55	41.20	2.8X	FVM	82.18	314	ePc	56	15.70	0.7		Z 18s	85.90um				7.2Msz			
			S	05	21.20			2.0s	774.00nm				6.5mb				e	57	10.00				
ITR	75.80	245	eP	55	40.10	-0.6	NIIJ	82.23	47	P	56	15.00	-0.2	JCT	92.93	315	eP	57	05.20	-2.1			
			i	56	04.50		YAM	82.26	46	P	56	18.80	3.4X		1.1s	94.90nm				6.1mb			
			i	58	37.00		MAT	82.27	48	eP	56	15.00	-0.5		Z 22s	100.00um				7.2Msz			
UTO	75.83	313	ePd	55	44.00	3.5X		1.4s	76.70nm				5.6mb				eS	08	20.00				
PSI	76.20	98	ePc	55	41.50	-1.5		Z 21s	36.90um				6.7Msz	EUR	93.01	331	iP	57	11.00	3.2X			
	1.2s	192.00nm				6.1mb				eS	06	30.00			1.0s	38.10nm				5.8mb			
IPM	76.59	95	ePd	55	44.90	-0.4	WKYJ	82.36	51	P	56	18.20	2.1	DAV	93.70	78	eP	57	10.00	-0.9			
	1.4s	85.00nm				5.6mb	OFUJ	82.38	44	P	56	17.60	1.6	BOG	93.75	279	eP	57	15.50	3.9X			
			e	56	17.80		KDC	82.46	358	P	56	18.10	2.1				eS	07	47.00				
			e	58	22.30		PIP	82.77	72	ePd	56	08.50	-9.8X	MIN	94.23	335	iPc	57	16.70	3.5X			
BPA	76.65	281	eP	55	46.00	0.4	IIDJ	82.85	49	P	56	20.20	1.6	WDC	94.31	336	eP	57	16.50	3.1X			
SEG	76.79	280	eP	55	49.00	2.8	CHJJ	83.07	48	P	56	19.40	-0.3				ePP	01	13.00				
BLA	76.90	308	iP-	55	49.60	2.9X	DDR	83.22	48	eP	56	21.80	1.3	FHC	94.56	337	eP	57	18.70	4.1X			
	Z 22s	87.60um				7.0Msz	SHZ	83.49	49	P	56	24.00	2.2	CHN	94.70	280	iP	57	22.00	6.3X			
			iS	05	37.60		ONA	83.50	46	P	56	29.00	7.2X	MNA	94.75	332	eP	57	19.80	4.1X			
MGG	76.94	280	eP	55	50.50	3.4X	SRY	83.54	48	eP	56	23.00	0.9	JAS	95.99	333	iPc	57	25.40	4.2X			
PAG	77.15	280	eP	55	52.50	4.2X	TSK	83.59	47	eP	56	21.20	-1.1				ePP	01	22.00				
QZH	77.16	68	Pc	55	48.00	-0.2	KAKJ	83.63	47	P	56	22.00	-0.5	FRI	96.59	332	eP	57	27.90	4.0X			
			S	05	32.00		OYM	83.66	48	eP	56	23.40	0.7	BKS	96.67	334	eP	57	29.00	4.8X			
YSS	77.18	38	iPc	55	50.20	2.2	TOK	83.76	48	eP	56	28.00	4.8X		3.5s	1160.00nm				6.8mb X			
	1.0s	240.00nm				6.2mb	AJI	83.84	49	P	56	24.00	0.4		Z 20s	88.00um				7.2Msz			
			iPcP	55	56.80		KTJ	83.91	49	P	56	24.80	0.9		N 20s	102.00um							
			ePP	58	44.00		BAG	83.97	74	eP	56	24.40	-0.3		E 20s	67.00um							
			iSKS	05	48.00					eS	06	46.00					ePP	01	27.80				
			eSPP	06	23.00		CVP	84.05	72	ePd	56	24.20	-0.6				eS	08	54.00				
TTA	77.29	0	P	55	49.60	1.3		1.1s	307.00nm				6.4mb				ePS	10	22.00				
MDN	77.38	279	eP	55	54.50	5.0X	RSSD	84.28	326	eP	56	26.50	0.5				e	12	22.00				
WAK	77.82	40	eP	55	52.00	0.5	KYS	84.33	48	eP	56	27.30	1.2				eSS	15	35.00				
			e	05	46.00		RXF	84.54	335	iP-	56	30.70	3.6X				eSSS	18	40.00				
TOA	77.85	356	P	55	53.50	2.0	CAR	84.57	279	eP	56	53.00	25.3X	MHC	96.95	334	eP	57	29.90	4.2X			
SOB1	77.85	247	eP	55	51.90	-0.2	YKM	84.74	335	iP-	56	31.50	3.4X	PRI	97.69	332	eP	57	33.90	4.9X			
			i	58	42.70		SDN	84.80	3	eP	56	32.00	4.0X	GLA	98.14	327	e(P)	57	32.00	1.0			
			i	58	52.80		CLX	85.11	334	iPc	56	34.00	3.9X				e	57	34.90				
PME	78.47	357	eP	55	55.50	0.7	LHD	85.21	335	iP-	56	32.70	2.3	PSO	98.44	279	eP	57	37.50	4.5X			
PMR	78.51	357	P	55	55.40	0.4	MVI	85.31	60	eP	56	35.00	3.9X	PAS	98.53	330	eP	57	38.00	5.3X			
	Z 20s	46.50um				6.8Msz				eS	07	05.00			1.8s	80.00nm				6.1mb			
PET	79.04	26	iPc	55	57.00	-1.0	MAN	85.45	75	eP	56	34.00	2.1				ePP	01	40.00				
	1.8s	420.00nm				6.2mb	OCP	85.47	75	eP	56	40.00	8.0X				eS	09	08.00				
			ePcP	56	03.00		PNT	85.54	337	eP	56	33.00	1.1	LPB	102.58	259	Pdiff	57	56.00	4.5X			
			ePP	59	00.00			1.2s	195.00nm				6.2mb				S	28	08.00				
			ePPP	00	48.00		NEW	85.71	336	eP	56	34.00	1.2	GUMO	102.98	60	e(Pdif	57	57.00	4.2X			

06d 15h

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PJG   102.98  60 e(Pdif57 53.00   0.2
YJA   104.10 253 e(Pdif58 03.00   4.7X
ARE   105.09 261 e(Pdif58 07.00   4.4X
LPA   106.57 238 ePKP- 02 36.00  16.8X
      Z  19s    31.90um          6.9Msz
ANT   108.64 254 e(PKP)02 55.00  31.6X
MAW   111.22 165 ePKP  02 29.00   2.0
WB2   117.39  94 ePKP  02 38.90  -1.4
                 e     02 46.70
                 e     03 49.80
                 e     13 11.30
                 e     17 07.00
ASPA  119.16  97 ePKP  02 44.00   0.4
ISO   121.82  91 ePKP  02 48.00  -0.7
CTA   126.59  86 iPKP  03 00.70   2.7X
       1.1s   101.00nm
                 i     05 00.00
                 i     05 30.00
ADE   128.48 107 ePKP  03 03.80   2.6X
SPA   129.94 180 ePKPc 03 04.30   1.2
       1.2s   164.00nm
      Z  20s    58.30um          7.3Msz
                 e     05 03.00
CMS   132.23  99 ePKP  03 10.00   1.6
TOO   134.54 107 ePKP  03 08.00  -4.6X
YOU   135.38 101 ePKP  03 10.80  -3.5X
                 i     03 17.50
DRV   136.00 149 iPKP  03 15.50   1.1
CAN   136.27 102 iPKPc 03 17.50   1.5
                 i     03 22.00
WAM   136.53 103 ePKP  03 12.70  -3.7X
                 e     03 22.90
SBA   139.07 169 iPKP  03 20.90   1.0
                 iS    06 17.60
KOU   140.44  73 iPKPc 03 34.90  10.9X
NOU   143.10  73 iPKPc 03 15.80 -12.8X
MCO   146.45 131 ePKP  03 38.00   4.7X
NDF   147.57  55 ePKP  03 42.50   6.4X
SVA   148.47  54 ePKP  03 43.00   5.4X
MSZ   152.60 112 PKP   03 51.70   8.7X
CRZ   153.97  88 PKP   04 14.90  29.6X
PPN   155.92 346 ePKP  03 58.00   8.4X
       1.3s    70.00nm
TVO   157.13 345 ePKP  03 56.00   6.0X
       1.3s   185.00nm
KRP   157.26  94 ePKP  04 07.00  17.5X
                 (PcP) 04 24.00
GNZ   159.33  95 ePKP  04 00.00   8.2X
     S.D. = 1.3  on 385 of 492 obs.

   AUG  17, 1983  10h 55m 54.53± 0.45s
   55.851 N ± 1.5km  161.297 E ± 1.4km
   DEPTH =  66.3 ±  4.1 km
   6.6mb (140 obs.)
 NEAR EAST COAST OF KAMCHATKA     (218)
      Felt (IV-V) at Petropavlovsk-
      Kamchatskiy.

PET     3.23 210 iPn   56 45.00   1.1
                 eSn   57 20.00
SKR     6.06 213 ePn   57 22.60  -0.9
       2.0s  *******nm          7.7mb X
      Z  24s   1192.00um
MGD     7.02 312 iPnd  57 41.30   4.5X
      Z  20s   794.00um
      N  14s   418.00um
      E  17s   390.00um
SMY     8.12 107 eP    57 49.90  -2.1
SEY     8.40 331 iPnd  58 01.80   6.0X
      Z  15s   655.00um
      N  14s   553.00um
      E  16s   414.00um
NKL    12.25 266 iPnd  58 55.00   7.1X
       8.0s  *******nm          7.2mb X
UGL    13.50 248 iPnc  59 10.80   6.4X
       8.0s    30.70nm          4.0mb X
ADK    13.57  98 P     59 04.00  -1.2
KUR    13.61 224 iPnd  59 06.50   0.8
       1.2s  6840.00nm          7.1mb
YSS    14.54 240 iPc   59 24.00   6.1X
       1.0s   840.00nm          6.0mb
      Z  14s   381.00um
      N  15s   264.00um
      E  16s   161.00um
                 iS    02 04.00
SHO    15.17 224 eP    59 20.30  -5.7X
       0.4s     0.06nm          2.2mb X
      Z  17s   170.00um
      N  17s   250.00um
      E  17s   230.00um
                 eS    02 04.00
ILT    15.22  30 iPc   59 30.00   3.5X
       1.2s  5600.00nm          6.6mb
ABJ    16.08 230 eP    59 41.00   3.5X
                 S     03 06.90
NEM    16.16 225 P     59 36.00  -1.8
WAK    16.19 238 eP    59 45.00   6.1X
                 eS    03 13.00
KUSJ   16.65 227 P     59 39.00  -5.7X
ASAJ   16.72 233 P     59 47.50   1.9
KUS    16.88 227 eP    59 45.00  -2.5
                 eS    02 52.00
ASA    17.11 233 eP    59 52.00   1.5
                 e     00 09.50
YAK    17.30 304 iPc   59 54.10   1.5
       1.6s  *******nm          7.2mb
                 iS    03 10.90
RMJ    17.31 235 eP    59 54.00   1.1
                 eS    03 15.00
OBI    17.42 230 eP    59 56.00   1.7
NKI    17.55  87 iPc   59 57.70   1.9
HOOJ   17.83 228 P     59 59.00  -0.3
SAP    18.14 233 eP    00 02.00  -1.1
                 e     00 20.00
URA    18.23 229 eP    00 05.00   0.8
                 e     03 20.00
ANM    18.50  48 eP    00 09.10   1.7
MRRJ   18.76 233 P     00 12.00   1.4
SUT    18.85 235 eP    00 10.00  -1.7
                 e     00 29.00
HAK    19.39 232 P     00 17.00  -0.6
HAC    20.11 229 eP    00 25.00  -0.1
                 S     04 11.70
AOMJ   20.57 231 P     00 29.00  -0.9
MIY    20.66 226 P     00 32.00   1.2
TIK    20.91 332 ePc   00 35.00   1.9
       0.9s  1800.00nm          6.4mb
      Z  15s    38.00um          5.9MszX
      N  14s   128.00um
      E  16s   247.00um
                 ePP   01 08.00
                 eS    04 23.00
                 ePcP  04 42.00
                 eSS   04 51.00
MRK    20.95 228 eP    00 34.00   0.3
                 eS    04 19.00
OFU    21.26 226 eP    00 38.00   1.2
                 eS    04 20.00
OFUJ   21.27 226 P     00 38.00   1.1
AKI    21.39 230 eP    00 39.00   0.9
                 eS    05 06.00
SDN    21.42  75 P     00 36.90  -1.4
HJH    21.67 229 P     00 41.00   0.1
ISN    21.97 226 P     00 44.00   0.1
SEN    22.28 226 P     00 50.00   3.1X
                 eS    04 46.00
TTA    22.48  54 iPc   00 50.10   1.2
YAM    22.51 227 P     00 50.00   0.8
YAMJ   22.71 228 P     00 52.00   0.8
SVW    22.79  59 P     00 53.60   1.7
FKS    22.88 226 eP    00 55.00   2.2
                 e     05 40.00
MDJ    22.97 254 Pc    00 54.00   0.3
                 sP    01 15.00
ONA    23.41 225 P     01 00.00   2.1
TUP    23.46 284 eP    00 59.20   0.9
       1.1s   910.00nm          6.1mb
                 epP   01 21.00 101kmX
SHR    23.53 226 P     01 00.00   0.8
IMA    23.57  46 P     01 00.60   1.1
AIK    23.60 231 P     01 00.00   0.2
NIIJ   23.93 228 P     01 01.80  -1.3
MIT    24.07 225 eP    01 07.00   2.6
                 eS    05 28.00
UTS    24.17 226 P     01 05.30  -0.1
KAKJ   24.34 225 P     01 05.00  -2.0
TSK    24.36 225 eP    01 05.50  -1.7
TKD    24.37 229 ePd   01 10.00   2.8
                 i     01 29.00
RDT    24.42  60 P     01 08.60   0.8
CHO    24.50 223 P     01 10.00   1.5
MAE    24.62 227 eP    01 12.00   2.3
KMG    24.71 226 P     01 12.60   2.1
WAJ    24.72 232 eP    01 12.00   1.4
                 eS    06 05.00
NGN    24.76 229 P     01 13.00   1.9
                 i     01 33.00
MAT    24.86 229 iPd   01 11.00  -1.0
       0.4s   508.00nm          6.3mb
                 eS    05 28.00
DDR    24.91 226 eP    01 11.00  -1.6
CHJJ   24.95 227 P     01 11.60  -1.3
TOK    24.96 225 eP    01 16.00   3.1X
MTMJ   24.99 229 P     01 12.00  -1.4
KDC    25.00  66 eP    01 11.40  -1.7
SLV    25.04  62 P     01 12.60  -0.9
KYS    25.23 224 eP    01 16.50   1.0
OYM    25.39 226 eP    01 15.30  -1.8
BOD    25.44 294 eP    01 19.20   2.0
       0.9s   960.00nm          6.3mb
TAT    25.53 224 eP    01 20.00   1.8
                 e     06 10.00
TKY    25.60 230 P     01 18.00  -0.9
CN2    25.77 257 Pc    01 17.60  -2.8
                 sP    01 38.00
AJI    25.78 225 P     01 19.00  -1.6
PMR    25.82  57 P     01 21.00   0.3
PME    25.86  57 P     01 21.40   0.3
KTJ    25.87 225 P     01 20.00  -1.4
IIDJ   25.89 228 P     01 20.00  -1.7
IID    25.90 228 eP    01 23.00   1.3
                 e     01 43.00
OSH    25.91 225 P     01 23.70   1.9
MPA    25.92  59 P     01 20.50  -1.1
COL    26.03  49 iPc   01 22.60   0.0
                 eS    06 27.00
FBA    26.03  49 iPc   01 22.60   0.0
SHZ    26.12 227 P     01 27.90   4.2X
HMM    26.63 227 eP    01 43.00  14.6X
TSRJ   26.67 231 P     01 28.00  -0.7
TK04   26.85 227 P     01 31.50   1.3
TK03   27.00 226 P     01 33.10   1.5
TOA    27.11  55 P     01 32.70   0.1
TK02   27.28 226 P     01 33.00  -1.0
HIN    27.32  59 P     01 34.50   0.0
NAR    27.45 230 P     01 37.00   1.1
TOTJ   27.48 233 P     01 36.00  -0.1
TK01   27.50 226 P     01 36.90   0.9
OSK    27.59 230 eP    01 35.00  -2.2
                 eS    06 56.00
OWA    27.83 229 P     01 39.00  -0.2
WKYJ   27.95 230 P     01 41.00   0.5
YONJ   28.09 234 P     01 40.90  -1.6
SNY    28.11 256 iPc   01 40.00  -1.7
                 sP    02 00.00
                 S     06 36.50
GLB    28.35  56 P     01 43.80   0.0
SHJ    28.54 229 P     01 46.00   0.4
TKSJ   28.83 232 P     01 47.70  -0.6
SHK    28.99 235 ePc   01 48.10  -1.7
HIR    29.24 235 P     01 52.00   0.0
MRT    29.39 231 P     01 54.00   0.6
WRG    29.57  58 P     01 55.70   1.0
CTGM   29.63  56 P     01 55.80   0.4
SHNJ   30.06 236 P     02 00.10   0.9
UWA    30.14 233 P     02 00.00   0.1
PCA    30.40  58 ePc   02 01.50  -0.6
OIT    30.56 235 ePd   02 06.00   2.4
                 eS    07 32.00
NOB    31.07 234 P     02 10.00   1.9
SAG    31.16 237 eP    02 11.00   2.1
DL2    31.22 254 Pc    02 07.00  -2.3
                 sP    02 27.00
INK    31.29  41 iPc   02 09.70   0.0
       1.0s   960.00nm          6.5mb
                 pP    02 55.00 223kmX
NGS    31.79 237 eP    02 14.00  -0.4
                 eS    07 17.00
CBI    31.88 214 eP    02 16.00   0.7
                 eS    07 55.00
KAG    32.44 234 eP    02 22.00   1.9
KAGJ   32.61 234 P     02 20.00  -1.6
IRK    32.83 288 ePc   02 24.00   0.7
       2.6s  3140.00nm          6.7mb
      Z  18s   337.00um          7.1Msz
      N  18s   229.00um
      E  18s   171.00um
                 esP   02 57.20
                 ePPP  03 55.00
                 eS    07 33.00
BJI    33.42 261 eP    02 26.00  -2.5
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        2.0s   389.00nm          5.9mb
                 (pP)  02 48.00  96kmX
                 (PP)  04 10.00
                 eS    08 13.00
NRI    33.89 323 iPc   02 31.20  -1.2
        1.3s   490.00nm          6.3mb
     Z  23s    134.00um          6.6MszX
     N  15s     57.00um
     E  20s    127.00um
                 epP   02 54.00 100kmX
                 ePP   03 51.00
                 ePPP  04 10.00
                 eS    07 50.00
SIT    33.93  61 eP    02 33.80   1.0
MBC    34.23  25 eP    02 35.00  -0.2
ZAK    34.35 286 iPc   02 36.00   0.4
        2.6s  3730.00nm          6.9mb
     E  16s    241.00um
                 ePPP  04 12.00
                 iS    08 01.80
MOY    34.90 289 ePd   02 42.80   1.6
        1.6s   680.00nm          6.3mb
     Z  14s     29.00um          6.2MszX
                 epP   03 07.80 111kmX
                 ePPP  04 20.50
HHC    35.46 266 Pc    02 46.00  -0.2
                 sP    03 07.50
TIA    35.63 255 Pc    02 45.70  -1.8
                 sP    03 06.50
                 sS    08 40.50
BTO    36.49 267 P     02 55.00   0.1
MVI    37.09 228 eP    03 02.00   2.2
TIY    37.13 262 Pc    02 59.00  -1.2
                 sP    03 19.00
SSE    37.40 245 Pc    03 02.00  -0.4
        6.0s     6.96nm          3.8mb X
     N  12s     5.59um
     E  12s    31.00um
                 sP    03 21.50
                 PP    04 32.00
                 S     08 52.00
                 sS    09 12.00
                 ScS   13 09.00
KHE    37.49 345 iPd   03 04.50   1.8
        2.0s  6390.00nm          7.2mb
     Z  15s    115.00um          6.8MszX
                 iPPP  05 04.00
                 iS    08 48.00
                 isS   09 34.00
                 iSS   11 19.00
                 eSSS  12 03.00
NJ2    37.86 249 iPc   03 05.00  -1.3
                 pP    04 40.00 534kmX
                 iS    08 58.00
UER    38.60 293 iPd   03 12.10  -0.1
        1.8s  1050.00nm          6.4mb
                 iPcP  04 21.10
YKA    40.68  45 eP    03 31.00   1.7
RSNT   40.70  45 eP    03 29.60   0.2
YKC    40.74  45 ePc   03 30.00   0.2
        1.0s  1170.00nm          6.7mb
PHC    41.19  66 eP    03 35.00   1.4
        1.5s  1670.00nm          6.6mb
WHN    41.43 252 P     03 34.00  -1.8
                 iPcP  05 30.00
                 S     09 50.00
                 ScS   13 29.80
ELT    41.62 299 iP    03 35.40  -1.6
        1.6s  1350.00nm          6.5mb
                 iS    09 47.00
                 eScS  13 25.30
XAN    41.75 261 eP    03 38.00  -0.5
                 S     10 30.00
ANP    42.09 240 iP+   03 42.00   0.6
                 iS    09 40.00
NVS    42.11 303 iPc   03 40.30  -0.8
        1.7s  1710.00nm          6.6mb
                 ipP   04 04.00 101kmX
                 iPP   05 22.00
                 iPcP  05 33.50
                 iS    09 53.80
                 isS   10 34.00
                 iScS  13 35.00
GTA    43.05 274 iPc   03 48.50  -0.6
                 S     09 52.00
LZH    43.11 268 iP+   03 50.00   0.3
        9.6s  3280.00nm
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     N  14s    189.00um
     E  14s    133.00um
                 pP    04 02.50  46kmX
                 sP    04 09.50
                 PcP   05 20.00
                 PP    05 51.00
                 PPP   06 43.00
                 PcS   09 13.00
                 S     10 38.00
                 ScS   13 21.00
                 SS    13 50.50
QZH    43.74 243 iPc   03 52.50  -2.1
                 sP    04 12.00
                 S     10 25.00
                 sS    10 45.00
GUMO   44.05 203 eP    03 54.50  -2.7
PJG    44.05 203 eP    03 54.50  -2.7
                 (pP)  04 18.50 102kmX
GUA    44.09 203 eP    03 53.80  -3.8X
        0.7s   175.00nm          6.0mb
                 e(S)  10 07.00
PGC    44.50  66 eP    04 01.00   0.5
HON    45.80 122 P     04 12.50   1.4
PNT    46.03  63 ePc   04 12.00  -0.8
        1.1s   475.00nm          6.3mb
                 pP    04 42.00 131kmX
SEM    46.31 299 ePc   04 12.70  -2.2
        1.3s  1170.00nm          6.7mb
     Z  16s    103.00um          6.9MszX
     N  15s     42.00um
     E  14s     68.00um
                 epP   04 36.60 101kmX
                 ePP   06 03.20
                 eS    10 55.50
EDM    46.58  56 iPc   04 16.80  -0.3
WMQ    46.76 268 iPc   04 19.00   0.3
                 sP    04 41.50
                 S     11 01.50
CD2    46.98 263 P     04 19.00  -1.5
                 sP    04 40.00
DAG    47.65   0 iPd   04 24.60  -0.5
        1.0s   150.00nm          5.9mb
GZH    47.95 247 Pc    04 27.50  -0.6
                 sP    04 46.00
NEW    47.97  63 iPc   04 27.20  -0.9
                 e     04 51.00
HKC    48.17 246 iP    04 30.00   0.2
YKW    48.27  61 iPc   04 30.00  -0.5
RXF    48.56  61 iPc   04 32.00  -0.7
MCO    48.63 246 eP    04 34.00   0.6
LDM    48.74  62 iPc   04 33.40  -0.6
LHD    48.75  62 eP    04 34.00  -0.2
GYA    48.81 256 P     04 33.00  -1.8
CLX    49.00  62 iPc   04 35.90  -0.3
FHC    49.43  75 ePc   04 39.70   0.3
SES    49.52  57 iPc   04 39.20  -0.8
        1.0s   166.00nm          6.0mb
BAG    50.05 235 eP+   04 41.00  -3.5X
                 i     11 42.00
WDC    50.37  74 iPc   04 46.20  -0.3
                 epP   05 20.00 147kmX
                 eP'P' 35 49.00
KEV    50.42 341 iP+   04 47.50   1.0
        0.7s   200.00nm          6.3mb
                 i     04 52.00
                 ePP   07 00.00
                 eS    11 52.00
                 eP'P' 35 26.00
FFC    50.63  48 eP    04 48.00  -0.3
SVE    50.78 316 iPc   04 50.50   1.1
        1.5s  1200.00nm          6.7mb
     Z  24s    185.00um          7.0MszX
     N  24s     80.00um
     E  24s    127.00um
                 iS    12 00.00
APA    51.01 337 iPc   04 50.70  -0.3
        2.0s  1300.00nm          6.6mb
                 ipP   05 16.00 106kmX
                 eS    12 00.00
MIN    51.04  73 iPc   04 51.00  -0.8
QCP    51.38 233 eP    04 56.00   1.7
LGP    51.52 229 ePd   04 56.00   0.6
ARU    51.87 316 eP    04 56.30  -1.3
        1.0s   850.00nm          6.7mb
     Z  20s    106.00um          6.9Msz
     N  15s     40.20um
     E  20s     70.20um
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                 epP   05 20.00  98kmX
                 ePcP  06 14.00
                 eS    12 07.00
                 eSP   12 15.00
LRM    51.97  62 iPc   04 58.00  -0.9
KMI    52.02 259 iP+   04 58.00  -1.5
     N  18s    116.00um
                 pP    05 13.00  57kmX
                 sP    05 20.00
                 PP    06 57.00
                 PPP   08 13.00
                 ScP   09 50.00
                 PcS   10 06.00
                 S     12 26.00
                 PS    12 43.00
                 sS    12 53.00
                 SS    16 10.00
PGP    52.43 233 ePd   05 03.00   0.7
        0.7s   684.00nm          6.8mb
BKS    52.46  76 eP    05 01.80  -0.6
        1.4s  2000.00nm          7.0mb
     Z  20s     29.00um          6.3Msz
     N  20s     22.00um
     E  20s     37.00um
                 epP   05 36.00 148kmX
                 ePP   07 24.00
                 eS    12 22.00
                 eSS   16 18.00
SOD    52.55 340 iP    05 01.80  -0.8
                 iP'P' 35 10.20
TLG    52.58 294 eP    05 03.10  -0.2
        2.0s   770.00nm          6.4mb
                 ipP   05 27.00  98kmX
                 iS    12 24.00
PRZ    52.61 292 eP    05 03.70   0.1
        3.0s  4000.00nm          6.9mb
     Z  15s     88.00um          6.9MszX
     N  15s     74.00um
                 epP   05 27.00  95kmX
                 ePP   07 03.00
                 ePPP  08 09.00
                 eS    12 22.70
                 esS   13 05.00
                 eSSS  17 51.00
PLP    52.79 227 eP    05 02.50  -2.4
AAA    52.80 294 iPc   05 05.00   0.1
        8.0s     8.00nm          3.8mb X
                 ipP   05 28.00  94kmX
                 iS    12 26.00
MHC    53.17  76 ePc   05 07.30  -0.5
                 epP   05 39.00 136kmX
BMN    53.33  70 eP    05 09.00   0.1
JAS    53.39  75 P     05 09.00  -0.2
MNA    54.27  73 eP    05 17.00   1.1
FRU    54.31 295 ePc   05 15.80  -0.2
        2.4s  4720.00nm          7.1mb
     Z  18s     67.50um          6.8Msz
     N  13s     61.60um
     E  15s     85.00um
                 ipP   05 41.80 108kmX
                 iS    12 46.00
FRI    54.48  75 ePc   05 16.50  -0.7
PRI    54.58  76 ePc   05 18.00  -0.1
                 epP   05 50.00 137kmX
NRN    54.61 293 eP    05 18.90   0.4
     Z  16s     48.50um          6.7MszX
                 epP   05 42.50  96kmX
                 esP   05 57.00
                 eS    12 53.00
                 esS   13 33.00
EUR    54.68  70 iP    05 19.10   0.1
FRB    54.70  25 eP    05 17.00  -1.4
LSA    54.99 272 Pd    05 20.90  -0.7
                 sP    05 43.40
KJF    55.08 337 iPc   05 21.00  -0.2
        1.0s   440.00nm          6.4mb
                 i     05 27.00
                 ePP   07 28.00
                 eS    12 12.00
                 eSSS  17 24.00
                 eP'P' 35 00.00
BDW    55.59  63 iPc   05 25.00  -0.5
KSH    56.06 292 Pc    05 29.00   0.2
                 sP    05 52.00
DAV    56.25 224 ePc+  05 28.00  -2.1
                 e     13 13.00
SUF    56.72 337 iP    05 32.10  -0.9
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17d 11h

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       0.4s   171.00nm          6.5mb
RSON  56.89  47 eP    05 33.30  -1.1
ANR   56.98 295 iPc   05 35.20   0.0
       2.0s  2500.00nm          7.0mb
     Z  11s    37.00um          6.7MszX
     N  11s    73.00um
     E  11s    88.00um
                 ipP   05 57.60  90kmX
                 iS    13 23.00
RSSD  57.33  59 iP    05 37.10  -0.7
PAS   57.43  76 iP    05 38.00  -0.4
       0.6s    90.00nm          6.1mb
                 eS    14 10.00
FRG   57.55 295 iPc   05 38.70  -0.5
       2.7s     5.40nm          4.2mb X
     Z  13s    41.00um          6.7MszX
     N  13s    61.00um
                 epP   06 02.70  97kmX
                 eS    13 17.20
SHL   57.76 269 iP    05 39.00  -2.0
                 iS    13 34.00
MUR   57.94 292 eP    05 41.80  -0.7
                 iS    13 38.70
TAS   58.10 298 ePc   05 43.30  -0.1
       3.0s  8000.00nm          7.3mb
     Z  18s    98.00um          7.0Msz
     N  17s    79.00um
     E  12s    50.00um
                 ipP   06 06.00  92kmX
                 ePcP  06 40.00
                 eS    13 36.00
                 eSS   17 34.00
PUL   58.32 333 eP    05 44.00  -0.3
       3.0s  3700.00nm          7.0mb
     Z  19s    90.00um          6.9Msz
     N  19s    70.00um
     E  20s    38.00um
                 ipP   06 12.00 115kmX
                 iPcP  06 40.00
                 iPP   08 04.00
                 iS    13 40.00
                 iSP   13 50.00
AKU   58.79 360 eP    05 48.00   1.4
MOM   58.81 196 eP    05 44.00  -4.1X
GCA   58.85  69 eP    05 47.60  -0.8
NUR   59.02 337 iP+   05 49.00  -0.1
       1.3s  1200.00nm          6.9mb
     Z  24s   192.00um          7.1MszX
                 i     05 55.00
                 ePP   08 16.00
                 ePPP  09 40.00
                 eS    13 48.00
                 eP'P' 35 00.00
RMU   59.10  69 eP    05 49.30  -0.9
CHTO  59.16 258 eP    05 49.80  -0.8
GAR   59.33 295 eP    05 51.20  -0.6
     Z  16s    36.00um          6.6MszX
                 epP   06 14.90  95kmX
                 eS    13 49.90
MOS   59.72 327 iPc   05 55.00   1.0
       2.0s  1400.00nm          6.7mb
     Z  26s   180.00um          7.1MszX
     N  24s   132.00um
     E  24s    73.00um
                 ipP   06 25.00 124kmX
                 esP   06 32.00
                 ePP   08 05.00
                 ePPP  09 34.00
                 iS    13 59.00
KKN   59.75 276 iPc   05 52.60  -2.3
       0.5s   190.00nm          6.5mb
PKI   59.85 275 iPc   05 53.40  -2.3
       0.8s   670.00nm          6.8mb
KHO   59.85 293 iPc   05 55.60   0.2
       9.2s  *******nm
     Z  17s    92.60um          7.0MszX
     N  17s    42.10um
     E  17s    20.00um
                 ePP   08 03.00
                 eS    13 58.00
DMN   59.99 276 iPc   05 55.20  -1.4
GOL   59.99  63 iPc   05 56.40  -0.1
GLD   60.03  63 eP    05 57.00   0.4
     Z  19s    45.60um          6.6Msz
GLA   60.08  74 iP    05 56.20  -0.6
RAB   60.31 190 e(P)  05 58.20  -0.2
REY   60.32   2 iP    05 58.70   0.8
                 i     06 00.50
                 i     35 25.80
BDT   60.41 257 eP    05 57.40  -1.7
       1.2s   274.00nm          6.3mb
DSH   60.45 296 iPc   05 59.00  -0.3
                 ipP   06 22.00  91kmX
                 iPS   14 40.00
KUL   60.45 295 iP    05 58.50  -0.8
                 ipP   06 21.70  92kmX
                 iPcP  06 43.40
                 iS    14 10.40
                 iPS   14 39.00
SAM   60.50 290 iPc   05 57.40  -2.2
       2.6s  3500.00nm          7.0mb
     Z  16s    92.70um          7.0MszX
     N  14s    69.80um
     E  16s    72.40um
                 ipP   06 22.40 100kmX
                 iS    14 07.00
                 iPS   14 43.00
                 iScS  15 33.20
OBN   60.52 327 iPc   05 59.50   0.1
       1.2s   680.00nm          6.7mb
     Z  26s   150.00um          7.0MszX
     N  26s   110.00um
     E  26s    68.00um
                 iPcP  06 42.00
                 iPPP  09 46.00
                 iS    14 09.00
                 iSS   18 10.00
WWW   60.99 200 eP    06 04.00   1.0
NST   61.07 255 eP    06 02.50  -1.1
UPP   61.08 340 iP    06 01.60  -1.6
       1.3s  3300.00nm          7.3mb
                 i     06 03.10
                 i     10 08.00
                 iS    14 15.00
                 eP'P' 34 59.30
KKM   61.16 234 iPd   06 05.10   0.7
       1.5s  1250.00nm          6.8mb
PCT   61.20 253 iPc   06 05.00   0.5
       1.6s   328.00nm          6.2mb
                 i     06 39.00
HFS   61.54 342 iP    06 05.30  -1.0
PAA   62.12 187 eP    06 10.00  -0.7
KHT   62.64 255 ePd   06 16.00   1.9
                 e     35 22.00
SCH   62.91  29 ePc   06 14.00  -1.5
       1.5s  2480.00nm          7.1mb
ALQ   63.08  67 iPc+  06 16.00  -1.2
       1.0s   265.00nm          6.2mb
     Z  18s    46.40um          6.7Msz
TZZ   63.12 203 eP    06 15.50  -1.8
LAT   63.40 196 eP    06 19.00   0.0
NDI   63.55 283 iPc   06 18.00  -2.0
       0.8s   101.00nm          5.9mb
     Z  20s    48.90um          6.7Msz
     N  20s    31.20um
     E  20s    36.20um
                 iS    14 42.50
NNT   63.83 253 eP    06 20.00  -2.0
                 e     35 13.80
HNR   65.05 181 eP    06 29.00  -0.7
AAI   65.25 217 ePc   06 30.90  -0.2
       1.9s  4020.00nm          7.1mb
LMG   65.44 194 eP    06 32.00  -0.5
MUD   65.78 343 iPc   06 35.10   1.1
       1.2s   990.00nm          6.7mb
                 i     07 00.00
COP   65.97 341 iPc+  06 36.60   1.4
                 iS    15 19.00
KAT   66.03 305 iPc   06 37.50   1.6
     Z  15s    68.80um          7.0MszX
     N  15s    50.00um
     E  14s    54.00um
                 epP   07 00.50  90kmX
                 ePcP  07 06.00
                 ePPP  10 38.00
                 eS    15 18.00
                 iPS   16 00.00
ASH   66.06 303 eP    06 36.60   0.5
                 ipP   06 59.90  91kmX
                 iPcP  07 01.20
PMG   66.08 195 eP+   06 33.00  -3.3X
     Z  18s    24.10um          6.4Msz
VAN   66.18 303 ePc   06 35.50  -1.4
       1.5s   480.00nm          6.2mb
     Z  16s   110.00um          7.2MszX
                 ePcP  07 00.00
                 eS    15 10.00
LUB   66.51  65 eP    06 30.00  -9.2X
MAK   66.80 313 iPc   06 41.00   0.3
       5.0s  *******nm          7.0mb X
                 iPcP  07 05.00
                 iPP   09 16.00
                 iSPP  15 56.00
MHI   66.82 301 iPc+  06 41.80   0.6
                 eS    15 23.00
GRO   67.23 314 iPc   06 44.00   0.5
       1.0s   750.00nm          6.6mb
     Z  18s    72.00um          6.9Msz
     N  18s   210.00um
     E  18s    75.00um
                 iPcP  07 07.00
                 iPP   09 17.00
EDU   67.24 351 eP    06 42.10  -1.2
       0.9s   509.00nm          6.5mb
ELO   67.38 351 ePc   06 43.20  -1.0
       0.6s   440.00nm          6.6mb
WAR   67.39 335 eP    06 45.00   0.7
                 e     07 00.00
                 eS    15 30.00
SIO   67.55  59 ePc   06 43.50  -2.1
EBH   67.58 351 ePc   06 44.60  -0.9
       0.8s   978.00nm          6.8mb
TUL   67.67  59 iPc+  06 44.50  -1.9
       1.3s  4060.00nm          7.2mb
     Z  18s    48.10um          6.8Msz
                 e(S)  16 16.00
PYA   67.69 317 iPc   06 46.00  -0.4
       1.0s   860.00nm          6.6mb
     Z  28s   171.00um          7.1MszX
                 eS    15 34.00
                 ePS   16 20.00
                 eSSS  22 53.00
EAB   67.71 351 iPc   06 45.40  -0.9
       0.7s   732.00nm          6.8mb
ESY   67.82 350 ePc   06 45.90  -1.1
       0.7s   830.00nm          6.8mb
RLO   67.83  58 iPc   06 45.40  -2.0
SNG   67.88 249 iPc+  06 50.80   2.9X
       1.7s  2630.00nm          6.9mb
BAK   67.93 310 iPd   06 48.00   0.2
     Z  18s    75.00um          7.0Msz
     N  18s   140.00um
     E  18s    78.00um
                 iS    15 46.00
EAU   67.97 351 ePc   06 47.20  -0.7
       1.1s  1460.00nm          6.9mb
EBL   68.01 351 ePc   06 47.10  -1.0
       1.3s  1130.00nm          6.7mb
GBO   68.01  58 ePc   06 46.50  -2.0
ELF   68.07  44 P     06 46.95  -1.8
DLA   68.25  45 P     06 48.30  -1.5
LDN   68.25  44 P     06 47.70  -2.1
OTT   68.31  40 eP    06 48.00  -2.1
       1.3s  1710.00nm          6.8mb
                 pP    07 22.00 139kmX
UTO   68.44  47 iPc   06 50.00  -1.0
EKA   68.45 351 Pc    06 50.20  -0.7
       1.6s  3210.00nm          7.0mb
ESK   68.47 351 iPc   06 50.30  -0.7
       0.9s   822.00nm          6.7mb
                 eS    15 48.20
FVM   68.51  54 eP    06 49.70  -1.8
HAM   68.53 342 iPc   06 53.00   1.6
ECK   68.60 350 iPc   06 50.90  -0.9
       0.8s   507.00nm          6.5mb
                 eS    15 51.50
LVV   68.85 332 iPc   06 52.00  -1.4
     Z  20s    76.50um          6.9Msz
     N  18s    83.60um
     E  20s    47.60um
                 iS    15 52.00
                 iSPP  16 21.00
                 iPS   16 29.00
                 iSS   20 18.00
BRN   68.93 340 iPc   06 51.50  -2.3
MNT   68.95  38 iPd   06 53.00  -1.1
       1.2s  1600.00nm          6.8mb
KHI   68.97 300 ePc   06 55.00   0.4
MTA   68.97 314 iP    06 55.00   0.8
                 ePcP  07 12.00
ANN   69.11 321 iPc   06 55.00   0.0
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17d 11h

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     N  20s    80.00um
                iPS   16 33.50
SOC    69.35 319 iPc   06 57.00   0.5
       2.5s  1900.00nm          6.6mb
     N  28s    36.00um
     E  16s    36.00um
                iPcP  07 17.00
                iPS   16 35.00
                iSSS  23 30.00
BHO    69.35  59 ePc   06 56.50  -0.2
ZUG    69.43 317 iP    06 59.00   1.9
BKR    69.46 315 iPc   06 58.00   0.5
                iPcP  07 22.00
                iSP   16 27.00
                iScS  16 42.00
                iSSS  23 30.00
KRA    69.67 335 iPc   06 59.20   0.8
       1.5s   902.00nm          6.5mb
     Z  27s   148.00um          7.1MszX
     N  24s    66.00um
     E  24s   112.00um
                i     07 05.20
                e     07 13.30
                i     07 23.00
                i     07 33.80
                iS    16 00.00
                i     21 00.00
WIT    69.70 344 iP    07 00.00   1.5
                ipP   07 24.40  95kmX
ABS    69.71 315 iPc   07 00.60   1.8
       0.5s   160.00nm          6.2mb
                isP   07 42.20
STE    69.73 314 iPc   06 59.60   0.5
       1.5s     1.80nm          3.8mb X
                iPPP  11 10.00
                iS    16 04.00
                iPS   16 42.60
AKH    69.75 315 iPc   06 59.60   0.3
IPM    69.86 247 ePd   06 58.30  -1.8
       0.9s   348.00nm          6.3mb
                e     07 10.70
                e     07 36.60
                e     07 49.30
                e     08 42.40
MKS    69.88 225 iPd   07 01.50   1.4
       1.0s  1030.00nm          6.7mb
KIS    70.01 327 iPc   07 01.00   0.5
       3.0s  2700.00nm          6.7mb
     N  21s    55.00um
     E  20s    67.00um
                iPcP  07 24.00
                iS    16 02.00
CLL    70.02 339 iPc   06 59.80  -0.7
       1.4s  1400.00nm          6.7mb
                ipP   07 25.00  98kmX
                eS    16 08.00
                P'P'  34 57.80
LEN    70.14 314 iPc   07 02.00   0.4
SIM    70.16 323 iPc   07 02.00   0.5
     Z  18s     7.80um          6.0Msz
     N  18s    67.00um
     E  18s    47.00um
                iPcP  07 23.00
                iS    16 09.00
                iSPP  16 45.00
GRS    70.18 312 iPc   07 02.60   0.7
       1.4s   590.00nm          6.3mb
                iPcP  07 25.80
                ipP   07 31.00 113kmX
                isP   07 41.00
                iS    16 06.00
                iPS   16 46.00
IAS    70.24 328 eP    07 04.00   2.1
BRG    70.24 339 iPc   06 59.90  -2.0
       1.4s   810.00nm          6.5mb
                ipP   07 29.70 119kmX
                iS    16 12.00
                esS   16 48.00
                P'P'  34 57.80
ERE    70.37 313 eP    07 02.00  -1.0
                iPcP  07 29.00
                iS    16 14.00
                iScS  16 52.00
UZH    70.39 332 iPc   07 03.00   0.2
       1.5s   700.00nm          6.4mb
     Z  16s    80.00um          7.1MszX
     N  16s    47.00um
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     E  16s    47.00um
                iPcP  07 30.00
                ipP   07 33.00 120kmX
                isP   07 45.00
                iS    16 09.00
                iSPP  16 47.00
SPC    70.40 334 iP    07 04.50   1.4
                i     07 27.00
                i     12 02.00
                e     16 18.40
                e     17 23.60
WTS    70.47 344 ePc   07 03.00  -0.2
       1.0s   610.00nm          6.5mb
                i     07 10.50
                epP   07 28.00  97kmX
                ePP   09 42.00
                e     10 08.00
                *     11 47.00
                eP'P' 34 48.50
BNH    70.56  37 eP    07 03.30  -0.7
DBN    70.62 345 iP+   07 05.00   0.9
     Z  22s    15.60um          6.2Msz
                ipP   07 27.00  84kmX
                i     10 16.00
                i     11 04.00
                e     12 02.00
                e     12 47.00
                iS    16 11.00
                isS   16 54.00
                i     17 08.00
                e     17 50.00
                eSS   20 33.00
                e     21 09.00
                eSSS  23 35.00
KLM    70.80 246 ePc   07 05.80   0.1
                e     08 02.10
NAK    70.83 312 iPc   07 06.80   1.2
                iS    16 11.80
KGM    70.87 244 ePc   07 06.70   0.5
       1.0s   219.00nm          6.0mb
CLI    70.90 328 eP    07 06.00   0.0
MOX    70.92 340 iPc+  07 05.70  -0.3
       1.8s    18.80nm          4.7mb X
                ipP   07 24.00  68kmX
                isP   07 30.00
                iPP   10 08.00
                i     12 00.00
                iS    16 15.00
                iPS   16 56.00
                iSS   21 20.00
                eP'P' 34 29.00
PRU    70.96 338 iPc   07 06.10  -0.1
       1.5s   768.00nm          6.4mb
     Z  19s    53.50um          6.8Msz
     N  17s    41.60um
     E  15s    20.00um
                e     07 27.00
                i     12 00.00
                S     16 56.00
BIR    71.06 328 iP    07 08.00   1.1
PPE    71.10 328 ePc   07 08.00   0.8
ATX    71.15  64 iP    07 06.30  -1.4
HOF    71.19 340 eP    07 07.20  -0.5
       1.4s  1060.00nm          6.6mb
                e     16 20.00
NSLM   71.26  61 iP    07 08.40   0.1
ETA    71.33 352 iPd   07 09.50   1.1
       1.4s  1370.00nm          6.7mb
TAB    71.39 311 iP+   07 11.00   1.8
BNS    71.41 343 eP    07 08.40  -0.5
       1.5s     0.90nm          3.5mb X
IR7    71.48 307 iPc   07 10.70   0.9
MRG    71.63  46 iP    07 09.00  -1.4
                i     09 47.30
PSZ    71.66 334 e(P)  07 12.00   1.4
VRI    71.68 328 ePc   07 12.00   1.3
HYB    71.72 274 ePc   07 08.70  -2.6
       1.0s   200.00nm          6.0mb
                e     07 33.00
ENN    71.80 344 iPc   07 10.90  -0.3
       1.2s   784.00nm          6.5mb
                e     07 17.50
                epP   07 35.50  95kmX
                ePP   09 53.50
                *     10 25.50
                *     12 00.00
                eP'P' 34 41.00
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CJR    71.81 331 eP    07 10.80  -0.6
ECP    71.85 352 iPd   07 11.30  -0.2
       1.3s  2100.00 m          6.9mb
CFR    71.87 327 ePc   07 13.00   1.3
TNS    71.90 342 iPc   07 12.80   0.8
                ePP   10 27.00
                ePPP  12 09.00
                eS    17 23.00
                eSS   21 36.00
                SSS   25 17.00
BRD    71.91 328 eP    07 15.00   3.0X
GRF    71.91 340 iPc   07 13.10   1.1
                e     07 15.50
                eS    16 33.00
KHC    71.97 338 iPc   07 12.50   0.1
       1.1s   804.00nm          6.6mb
     Z  18s    37.20um          6.7Msz
     N  18s    22.10um
     E  16s    12.60um
                e     07 37.50
                e     12 12.30
UCC    72.00 345 Pd+   07 13.30   0.8
                PcP   07 29.30
                pPP   10 27.00
                S     16 34.00
                *     17 09.00
PWLA   72.06  54 iP    07 11.70  -1.4
WET    72.10 339 iPc   07 13.00  -0.1
     Z  15s    36.10um          6.8MszX
                e     10 28.00
                e     12 12.00
                eS    16 32.00
                e     17 54.00
GRB1   72.11 340 iPc   07 13.10  -0.1
     Z  19s    36.00um          6.7Msz
                e     07 15.50
                eS    16 33.00
BGG    72.11 343 iPc   07 13.70   0.6
       1.3s     0.50nm          3.3mb X
VAL    72.35 355 P     07 15.00   0.6
                SS    21 16.00
ISR    72.40 328 ePc   07 16.00   1.0
TLB    72.45 327 ePc   07 16.00   0.9
PSI    72.56 248 iPc   07 12.70  -3.5X
       0.7s   226.00nm          6.2mb
DOU    72.65 345 Pd    07 15.50  -0.8
                i     07 17.50
                pP    07 41.00  99kmX
                PP    10 09.00
                pPP   10 34.00
                S     16 37.00
                ScS   17 06.00
                SP    17 20.00
                P'P'  34 43.80
CMP    72.72 329 iPd   07 23.00   6.2X
DEV    72.76 331 ePd   07 22.00   5.0X
COZ    72.87 330 iPd   07 19.00   1.1
STJ    73.07  23 ePc   07 17.80  -0.9
       1.5s  3110.00nm          7.0mb
STU    73.17 341 ePc+  07 19.00  -0.4
       1.0s   440.00nm          6.3mb
     Z  20s    36.20um          6.7Msz
PSN    73.22 326 iPd   07 22.00   2.4
GWF    73.25 342 iPc   07 19.70  -0.2
BUC1   73.27 328 iPc   07 21.00   1.0
FUR    73.36 340 eP    07 20.30  -0.2
       1.6s  1600.00nm          6.7mb
     Z  18s    40.00um          6.7Msz
                e     07 44.00
                e     10 40.00
                e     12 30.00
                e     17 23.00
                e     18 02.00
KAS    73.43 321 eP    07 22.50   1.4
BUH    73.44 342 eP    07 17.80  -3.2X
CGN    73.45 328 ePc   07 22.00   1.0
BHG    73.46 338 eP    07 20.80  -0.3
       1.7s  1520.00nm          6.7mb
POO    73.46 279 iPc   07 21.50   0.0
DRA    73.49 330 eP    07 23.00   1.8
BLA    73.50  47 iP+   07 20.20  -1.3
     Z  19s    73.80um          7.0Msz
                iS    17 21.60
CLO    73.53 331 eP    07 21.00  -0.5
PVC    73.54 173 iPc   07 20.50  -1.2
                iS    17 27.50
CDF    73.86 342 eP    07 23.00  -0.5
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	1.2s	945.00nm		6.6mb	WFF	76.73	347	eP	07	39.20	-0.5			ipP	08	35.40	85kmX
GAP	74.06	339	eP	07 24.50 -0.1		1.3s	724.00nm			6.5mb		GIB	82.46	334	eP	08 11.00	0.3
	1.0s	594.00nm		6.5mb	MZF	76.74	345	iPc	07	39.60	-0.2		1.0s	130.00nm		5.8mb	
ECH	74.07	342	iPc	07 24.00 -0.6		1.4s	858.00nm			6.5mb		TPT	82.52	131	iP	08 13.30	2.3
MSL	74.16	312	iPc	07 26.00 0.7	DST	76.76	324	eP	07	38.70	-1.4		1.3s	2420.00nm		7.0mb	
			iPcP	07 47.00	ALT	76.76	323	iP	07	41.50	1.4			ipP	08	36.00	85kmX
			iPPP	10 49.00	SKO	76.78	330	iPc	07	40.70	0.7	ASPA	82.56	205	eP	08 09.00	-2.2
			i	12 31.00				eS	18	07.00		VAH	82.74	131	iP	08 14.20	2.0
			iS	16 54.50	LSF	76.86	346	eP	07	40.10	-0.3		1.3s	1610.00nm		6.8mb	
			iPS	17 29.50		1.4s	674.00nm			6.4mb				ipP	08	37.00	85kmX
			iSS	21 26.50	VAY	77.06	329	iP	07	41.70	0.1	ERC	82.75	336	eP	08 12.50	0.5
KER	74.18	308	eP	07 27.00 1.4	EZN	77.30	326	iPc	07	42.60	-0.3	RUV	82.80	131	iP	08 14.70	2.2
SLE	74.27	341	ePd	07 24.40 -1.4	PRT	77.50	338	eP	07	47.00	3.1X		1.3s	2100.00nm		6.9mb	
HAU	74.41	343	eP	07 26.00 -0.6				ipP	08	01.00	49kmX			ipP	08	37.60	86kmX
	1.2s	765.00nm		6.5mb				iS	17	32.50		MEI	82.95	333	eP	08 13.50	0.4
BAF	74.46	342	iPc	07 26.50 -0.5	FIR	77.56	338	eP	07	46.50	2.2	PTO	83.00	352	iPc	08 09.00	-4.3X
PPI	74.47	245	ePc	07 27.00 -0.3				iSKS	17	32.00					iS	18 26.00	
BSF	74.50	342	eP	07 26.60 -0.6				iS	18	10.00		RAR	83.55	144	P	08 17.00	0.8
ZUL	74.56	341	ePd	07 26.80 -0.7	RJF	77.78	346	iPc	07	45.30	-0.3				S	19 12.00	
NDF	74.58	164	eP	07 29.00 1.2		1.4s	472.00nm			6.3mb		AFR	83.90	134	iP	08 20.00	2.0
SAX	74.61	341	ePd	07 27.50 -0.6	PRK	77.85	326	eP	07	45.00	-0.9		1.3s	4500.00nm		7.3mb	
OGA	74.65	339	iPc	07 28.30 0.1	NOU	77.97	175	iPc	07	48.30	1.6			ipP	08	42.90	85kmX
FLN	74.65	348	iPc	07 27.00 -0.9				iS	18	18.50		PPT	84.01	134	iP	08 20.60	2.0
	1.2s	693.00nm		6.5mb	BCK	78.03	322	iP	07	47.50	0.4		1.3s	2070.00nm		7.0mb	
LJU	74.69	337	eP	07 29.40 1.2	CAF	78.08	345	eP	07	47.50	0.3			ipP	08	43.50	85kmX
			e	10 44.00		1.3s	739.00nm			6.5mb		PAE	84.10	134	iP	08 21.10	2.1
			eS	17 42.00	KZN	78.23	330	eP	07	45.50	-2.6		1.3s	2270.00nm		7.0mb	
LDF	74.77	347	eP	07 27.50 -1.1	LFF	78.25	346	eP	07	48.20	0.1			ipP	08	43.90	85kmX
	1.3s	634.00nm		6.4mb		1.2s	783.00nm			6.5mb		TVO	84.34	133	iP	08 22.70	2.4
JMB	74.82	327	eP	07 32.00 3.0X	IZM	78.30	325	iP	07	49.00	0.5		1.3s	1100.00nm		6.7mb	
TRT	74.98	230	iPd	07 27.80 -2.4	POI	78.34	337	eP	07	50.00	1.4			ipP	08	45.50	85kmX
	0.8s	944.00nm		6.8mb	LPO	78.44	346	eP	07	49.20	0.0	MBL	84.37	218	eP	08 20.00	-0.3
VUN	74.99	163	ePc	07 30.80 0.7		1.2s	873.00nm			6.6mb		HLW	84.58	318	iP+	08 22.00	0.5
	1.4s	735.00nm		6.4mb	AQU	78.45	336	eP	07	50.20	0.9				eS	19 30.00	
CEY	75.01	337	eP	07 30.20 0.1		1.0s	0.36nm			3.3mb	X	SOR	84.70	57	iPc	08 22.00	-0.2
			i	07 31.80	ISQ	78.46	201	eP	07	47.00	-2.5		6.0s	*******	nm	7.2mb	X
			eS	17 43.40	MNS	78.58	337	eP	07	49.50	-0.4				eS	18 38.00	
DMK	75.03	326	eP	07 30.30 0.1		1.2s	670.00nm			6.5mb		ALI	84.88	346	iP-	08 24.00	1.2
LLS	75.04	341	ePd	07 30.00 -0.5	FRF	78.66	341	eP	07	50.20	-0.2				eS	19 14.00	
GRR	75.06	348	iPc	07 29.60 -0.7		1.4s	594.00nm			6.3mb		CRT	86.43	348	iPc	08 33.60	2.9X
	1.2s	1050.00nm		6.6mb	CIN	78.75	324	iPd	07	50.00	-0.9	COO	86.46	188	eP	08 30.00	-0.6
SVA	75.09	163	ePc	07 31.90 1.2	FOG	78.80	334	eP	07	53.70	2.6	ALM	86.63	347	iPc	08 32.50	1.0
TRI	75.18	337	iPc	07 31.10 0.1	LRG	78.82	342	eP	07	51.30	0.1		2.1s	5.50nm		4.3mb	X
			e	11 39.60		1.2s	720.00nm			6.5mb		N	26s	1.00um			
			e	12 33.10	DUI	78.86	335	eP	07	51.50	0.0	E	18s	0.90um			
			iS	17 04.00	WB2	78.88	206	iPc	07	49.10	-2.7			iPP	12 28.60		
			iSP	17 40.00				i	07	52.20				iPPP	13 09.70		
			iSS	22 32.00				iPcP	09	14.00				iS	19 30.00		
			iSSS	25 47.00				i	17	41.70		WBN	86.86	211	eP	08 31.00	-1.6
ISK	75.30	325	iP	07 32.40 0.7	ELL	78.90	322	iP	07	51.30	-0.7	NAU	87.21	222	iPd	08 34.20	-0.1
VDL	75.32	340	ePd	07 32.00 -0.1	LMR	78.91	342	eP	07	51.70	0.0	SFS	87.43	350	iPc	08 37.00	1.6
HRT	75.32	324	iP	07 33.00 1.1		1.3s	761.00nm			6.5mb					i	08 46.00	
IST	75.34	325	iPc	07 32.20 0.3	BRT	78.93	333	eP	07	51.00	-0.8				i	09 21.00	
GBA	75.43	273	Pc	07 29.40 -3.4X	IIC	79.02	71	iP	07	54.80	1.7				iPP	11 18.00	
	1.2s	259.00nm		6.0mb	YER	79.11	323	iPc	07	52.70	-0.3				iPPP	14 30.00	
LPF	75.44	348	iPc	07 31.70 -0.7	RMP	79.13	337	iPd	07	53.50	0.5				iSKS	19 10.00	
	1.3s	972.00nm		6.6mb				iPP	10	53.00					iS	19 36.00	
DIM	75.50	328	iPd	07 34.00 1.1				iS	17	56.00					iPS	20 24.00	
LOR	75.52	344	iPc	07 32.10 -0.9				iPS	18	40.00					iSP	22 30.00	
	1.2s	693.00nm		6.5mb	RDP	79.17	337	eP	07	54.50	1.2				iSS	27 50.00	
SHI	75.62	302	eP	07 32.00 -2.0	CVF	79.21	340	iPc	07	53.00	-0.4				iSSS	37 00.00	
VTS	75.70	329	iP	07 33.00 -0.9		1.2s	720.00nm			6.5mb		CMS	87.99	193	iPd	08 39.00	1.1
PLD	75.71	328	iPc	07 34.00 -0.1	LCI	79.25	332	eP	07	53.00	-0.6	RIV	89.74	188	eP	08 48.00	1.9
SSF	75.78	345	iPc	07 33.80 -0 6	TAC	79.35	71	iP	08	09.00	14.2X	MEK	89.84	217	eP	08 44.00	-2.8
	1.3s	396.00nm		6.2mb				eS	18	43.00		YOU	90.45	191	iPd	08 50.40	1.0
LBF	75.78	344	eP	07 33.60 -0.9	IIM	79.42	71	iP	07	56.40	1.2	CRZ	90.45	171	eP	08 52.00	2.6
	1.4s	472.00nm		6.2mb	IIP	79.55	71	iP	07	56.80	0.8				iPcP	09 15.00	
TMA	75.80	341	ePd	07 34.00 -0.7	SGO	79.71	334	eP	07	56.00	0.0	CAN	91.42	190	Pc	08 55.20	1.3
KDZ	75.94	328	iPd	07 35.00 -0.4	ATH	79.81	327	iPc	07	57.00	0.4	WAM	92.29	190	iPc	08 59.50	1.7
SAL	75.96	339	eP	07 35.00 -0.4				iS	17	42.00		TOO	94.03	193	eP	09 06.00	0.2
	1.2s	1400.00nm		6.8mb	HRI	79.85	316	eP	07	57.00	-0.1	KRP	94.20	169	P	09 08.30	1.8
MMK	76.02	341	ePd	07 35.80 -0.3	ORI	79.90	333	eP	08	00.00	2.9				S	20 18.00	
AVF	76.06	345	eP	07 35.30 -0.7	III	80.05	72	iP	07	57.20	-1.3				sS	20 56.00	
	1.3s	803.00nm		6.5mb	IIT	80.14	71	iP	08	00.00	1.0	RKT	95.31	124	iP	09 14.00	2.0
DIX	76.09	342	ePd	07 36.40 -0.1	MMN	80.17	334	eP	08	01.00	2.5		1.2s	105.00nm		6.2mb	
SMF	76.13	344	iPc	07 35.60 -0.8	EPF	80.18	346	eP	07	58.10	-0.5	MUN	95.56	217	eP	09 12.00	-0.9
	1.4s	735.00nm		6.4mb		1.4s	704.00nm			6.4mb		ARO	95.70	300	eP+	09 15.30	1.0
KOU	76.15	177	iPc	07 38.00 1.4	CSI	80.20	333	eP	08	01.50	2.7	KSU	95.91	300	ePd	09 17.30	2.2
EDC	76.34	325	eP	07 37.90 0.3	ROI	80.32	333	eP	08	01.80	2.4	NWAO	96.08	216	eP	09 14.00	-1.3
KNA	76.40	212	iPd	07 38.10 -0.1	VLS	80.54	330	eP	07	59.50	-1.1	SJG	96.17	45	eP	09 15.50	-0.8
ORO	76.42	341	iPc	07 40.00 1.8	ACI	80.62	333	eP	08	02.40	1.4		1.0s	125.00nm		6.4mb	
MMB	76.48	329	eP	07 38.00 -0.4	CZI	80.77	333	eP	08	02.50	0.8	Z	20s	44.00um		6.9Msz	
CTA	76.71	195	iPc	07 36.90 -2.9	JER	81.39	316	eP	08	05.80	0.6				e	13 08.00	
	0.8s	79.50nm		5.7mb	NPS	81.70	325	eP	08	04.00	-2.7				iS	20 28.00	
			iS	17 19.00	DOR	81.82	316	eP	08	09.00	1.6	GBR	96.21	300	eP	09 18.90	2.3
TCF	76.72	345	iPc	07 39.40 -0.3	PMO	82.42	131	iP	08	12.60	2.1	MNG	96.85	169	P	09 17.00	-1.6
	1.3s	475.00nm		6.3mb		1.3s	1500.00nm			6.8mb		WEL	97.44	170	P	09 20.20	-1.0

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                    PP    13 25.00
                    S     19 48.00
                    SKS   20 43.00
SNZO   97.46 170 e(P)  09 20.50  -0.7
        1.6s   378.00nm          6.7mb
AAE    99.83 302 eP    09 34.00   0.7
MSZ   100.30 175 ePdiff09 37.00   2.8X
                    PP    13 16.00
FDF   101.18  42 ePdiff09 40.00   1.2
TOV   102.10  52 ePdiff09 43.70   0.7
SDV   102.53  53 ePdiff09 47.00   1.9
CAR   102.70  49 iPdiff09 46.10   0.4
        1.4s   242.00nm          6.7mb
CHN   103.63  59 iPdiff09 52.00   2.0
FUO   104.10  57 ePdiff09 53.00   0.8
BOG   104.68  58 iPdiff09 56.50   1.7
PSO   106.05  63 ePdiff10 03.00   2.0
NAI   109.73 299 ePdiff10 20.00   2.9X
BNG   112.59 319 ePdiff10 30.00   0.3
        0.9s    10.00nm
KIC   116.94 344 ePKP   14 31.20  -1.9
                    e     15 40.50
NNA   117.50  70 iPKP   14 34.00  -0.2
        0.5s    38.70nm
HUA   118.34  68 iPKPd  14 38.00   1.7
AVY   118.66 279 ePKPc  14 36.50   0.0
NPA   120.17 289 ePKP   14 40.00   0.8
                    e     15 04.00
                    e     16 29.00
ARE   124.04  67 ePKP   14 48.00   1.0
TET   124.04 293 iPKP   14 48.00   1.4
        1.5s     0.51nm
                    ipP   15 10.00
                    e     16 57.00
                    e     22 25.00
                    e     24 35.00
                    i     28 09.00
MTD   125.60 295 iPKPc  14 47.00  -2.8X
                    ipP   15 15.00
                    iS    28 13.00
LPB   125.84  64 PKP    14 51.00   0.3
        1.0s   260.00nm
KRI   126.64 297 iPKPc  14 51.00  -0.8
                    ipP   15 16.00
                    iS    28 14.00
BUL   129.94 296 iPKPc  14 59.00   1.0
        1.1s   155.00nm
      Z  19s    18.80um          6.8Msz
      N  19s    12.50um
      E  19s     5.56um
                    ipP   15 23.00
                    iPP   18 15.00
SOB1  130.30  29 ePKP   14 39.90 -18.8X
                    e     14 59.00
                    e     17 07.10
                    e     18 15.60
ITR   130.52  26 ePKP   14 41.30 -17.8X
                    i     14 56.90
                    i     15 18.70
                    i     18 16.00
ANT   130.57  71 iPKP   14 59.80   0.9
YJA   131.89  65 ePKP   14 45.00 -17.1X
MIR   132.32 210 iPKP   15 00.00  -0.9
        2.0s    30.00nm
                    epPKP 15 25.00
CNG   133.09 287 iPKPd  15 04.00   0.3
        1.0s   160.00nm
                    i(pP) 15 27.00
                    e     17 35.00
                    e     17 51.00
SLA   134.00  67 e(PKP)15 06.00   0.3
BAO   134.03  41 PKP    14 52.10 -13.8X
JOZ   134.07 287 iPKPc  15 04.80  -0.7
                    i     15 28.30
SLR   134.72 292 iPKPc  15 02.00  -5.0X
        1.2s   350.00nm
      Z  20s    27.70um          7.0Msz
                    i     15 08.20
EVA   134.92 290 e(PKP)15 01.50  -5.9X
                    i     15 06.50
BPI   135.21 292 iPKPc  15 02.60  -5.4X
                    i     18 30.50
TLL   135.47  77 ePKP   14 56.50 -11.9X
                    i     15 30.40
                    iPPP  23 32.00
                    eSKSP 29 55.00
CYA   136.84  71 ePKPd  14 58.00 -12.8X
SEK   137.14 290 iPKPc  15 03.50  -8.1X
                    i     18 35.50
VIR   137.35 291 iPKPc  15 04.00  -7.9X
CEN   137.68  76 ePKP   15 02.00 -10.4X
PEL   137.80  80 iPKPd  15 03.50  -9.0X
                    ipPP  15 12.40
CFA   137.98  76 PKPd   15 02.00 -10.9X
                    PKS   18 10.00
                    PPS   30 40.00
                    SSP   36 54.00
TACH  138.04  80 iPKP   15 03.80  -9.1X
                    i     15 14.00
                    i     15 37.40
PCH   138.25  80 iPKPc  15 03.30 -10.1X
                    i     15 13.60
CHCH  138.40  80 iPKPd  15 03.50 -10.1X
                    i     15 13.90
                    i     16 38.00
                    e     20 26.70
BLF   138.53 291 iPKPc  15 07.70  -6.4X
LQT   138.56  80 iPKP   15 04.30  -9.7X
                    i     15 15.00
TCA   139.75  72 ePKPc  15 07.50  -8.6X
RFA   140.24  79 ePKPc  15 08.00  -8.9X
VAO   141.13  44 ePKP   15 11.70  -7.1X
                    e     15 13.70
                    e     15 20.20
                    e     15 37.60
GRM   141.60 287 iPKPc  15 14.80  -4.6X
        0.7s   140.00nm
      Z  20s     9.22um          6.5Msz
BMA   141.91  40 ePKP   15 15.20  -5.0X
                    e     15 17.00
                    e     15 20.40
                    e     18 27.90
                    e     18 35.80
RDJ   142.43  39 iPKP+  15 14.40  -6.6X
MAW   142.60 219 iPKPc  15 10.10  -9.8X
SUR   143.92 294 iPKPd  15 22.20  -1.4
        1.2s   438.00nm
      Z  20s    36.90um          7.1Msz
SPA   145.67 180 ePKPd  15 22.96  -2.5
        1.0s   440.00nm
      Z  21s    28.00um          7.0Msz
LPA   146.04  69 PKPd+ 15 26.40  -0.4
      Z  21s    20.10um          6.9Msz
                    ipPKP 15 52.00
VBA   146.21  77 iPKPd  15 24.20  -2.8X
                    i     16 28.50
                    e     17 06.00
SYO   151.33 220 iPKP   15 33.90   0.0
NVL   160.07 210 iPKPc  15 45.00  -0.2
        2.0s   420.00nm
                    ipPKP 16 19.00
                    i     16 23.00
                    isPKP 16 29.00
                    iPP   20 09.00
      S.D. = 1.2  on 530 of 591 obs.

&  SEP  07, 1983  19h 22m 05.04s
   60.978 N          147.315 W
   DEPTH =  30.2km  (geophysicist)
   6.3mb (112 obs.)  6.2Msz ( 39 obs.)
 SOUTHERN ALASKA                (  2)
      <AGS>. Slight damage (VI) at
      Valdez. Felt (V) at Anchorage,
      Chugiak, Copper Center, Cooper
      Landing, Homer, Moose Pass,
      Palmer, Soldotna, Sutton,
      Wasilla and Willow.

CFI     0.30 313 iPc    22 12.40  -0.1
VLZ     0.50  72 iPd    22 15.27  -0.2
PWL     0.51 257 iPc    22 14.95  -0.8
KNK     0.70 309 iPc    22 18.52  -0.3
KLU     0.85  52 iPc    22 20.52  -0.4
SCM     0.86 360 iPc    22 21.00   0.0
CVA     0.88 119 iPc    22 22.05   0.8
SML     0.97 330 iPc    22 22.62   0.1
PMR     1.07 306 iPc    22 24.10   0.1
PMS     1.12 285 iPc    22 25.00   0.2
SGAM    1.14 114 iPc    22 26.10   1.1
TOA     1.26  25 iPd    22 27.63   1.0
BMRM    1.33  90 iPc    22 27.98   0.2
SEW     1.37 231 iPd    22 28.00  -0.2
PWA     1.41 300 iPc    22 29.35   0.6
MID     1.63 162 iPc    22 32.25   0.3
GLB     1.76  73 iPc    22 34.46   0.5
KAIM    1.78 125 iPc    22 33.89  -0.3
BRNE    1.97 239 iPd    22 36.74  -0.3
BRSE    2.10 234 iPd    22 38.42  -0.5
BRLK    2.15 237 iPd    22 39.04  -0.5
NNL     2.18 246 iPd    22 40.06   0.1
PAX     2.18  23 iPd    22 41.20   1.2
BRNW    2.23 241 iPd    22 40.65   0.0
WAX     2.26 102 iPd    22 41.90   0.8
BRSW    2.29 236 iPd    22 40.95  -0.6
SPU     2.31 277 iPd    22 41.50  -0.4
SNH     2.35 108 iPc    22 41.80  -0.6
BALM    2.42  86 iPc    22 43.28  -0.2
CNPM    2.44 235 iPd    22 42.93  -0.7
SDEM    2.51 234 iPd    22 44.05  -0.6
RDT     2.53 263 iPd    22 44.17  -0.8
SLV     2.61 236 iPd    22 45.23  -0.8
BLR     2.62  15 iPd    22 47.40   1.1
RED     2.74 261 iP     22 47.00  -1.0
WRG     2.78 108 ePc    22 47.65  -0.8
YAH     2.81 100 iPc    22 48.57  -0.5
CTGM    2.92  88 iPc    22 50.28  -0.2
GYO     3.00 104 iPc    22 51.15  -0.5
CHX     3.20 104 iPc    22 53.83  -0.6
GKC     3.23 355 iPd    22 56.10   1.3
LVY     3.37 345 iPc    22 57.60   0.7
HDA     3.45   3 iPc    22 58.30   0.4
PCA     3.60 101 iPc    22 59.02  -1.1
NEA     3.70 348 iPc    23 01.50   0.0
RDS     3.88 355 iP     23 03.95  -0.1
BCPM    3.94 102 ePc    23 03.27  -1.6
COL     3.94 357 iPc    23 04.80  -0.1
FBA     3.94 357 iP     23 04.70  -0.2
GLM     4.03 360 iPc    23 05.80  -0.4
SVW     4.04 275 iPd    23 04.38  -2.0
PNL     4.15 105 ePc    23 05.42  -2.5
KDC     4.18 222 iPd    23 06.60  -1.7
HQN     4.48 106 P      23 10.45  -2.1
TTA     4.55 299 iPc    23 11.60  -2.1
FYU     5.68   8 eP     23 29.20  -0.3
IMA     5.85 334 iPc    23 30.50  -1.5
SIT     7.33 117 ePd    23 49.50  -3.1
SDN     8.96 237 eP     24 12.10  -3.2
ANM     9.01 301 eP     24 13.00  -3.0
INK     9.41  33 eP     24 18.00  -3.5
BRW    11.03 344 eP     24 40.10  -3.5
ILT    15.06 311 iPc    25 34.20  -2.8
        1.2s   930.00nm          6.0mb
      Z  14s   382.00um          6.6MszX
      N  14s   160.00um
      E  14s   358.00um
                    iS    28 22.00
PHC    15.11 124 eP     25 36.00  -1.8
        1.5s  2020.00nm          6.2mb
YKA    15.48  70 eP     25 41.50  -0.9
RSNT   15.48  70 iPc    25 40.50  -2.0
YKC    15.54  70 ePc    25 40.60  -2.7
        0.5s   381.00nm          5.9mb
EDB    15.89 125 P      25 50.00   2.2
CBB    16.48 122 P      25 55.50   0.2
ALB    17.29 123 P      26 09.00   3.5
MBC    18.05  21 eP     26 13.00  -1.8
HNB    18.23 119 P      26 20.00   2.9
PGC    18.34 122 eP     26 18.00  -0.5
ADK    18.47 254 eP     26 15.70  -4.2
                    i    26 17.80
MCW    18.58 120 eP     26 21.80   0.4
VGZ    18.58 122 P      26 21.50   0.1
CMW    19.49 123 eP     26 32.10  -0.1
PNT    19.49 114 eP     26 32.00  -0.3
        1.4s   268.00nm          5.3mb
EDM    19.82  98 eP     26 34.20  -1.5
BFW    20.17 125 eP     26 39.70   0.2
LON    20.52 122 iPc    26 43.60   0.4
SHW    20.80 124 eP     26 46.70   0.6
NEW    21.38 113 iPd    26 52.30   0.4
        1.0s   460.00nm          5.8mb
                    e    27 06.00
COR    21.71 128 iPd    26 56.00   0.9
RXF    21.85 109 iP-    26 56.80   0.1
                    eS   33 50.00
PNO    22.71 120 iPc    27 06.00   0.9
FFC    24.50  84 eP     27 21.00  -1.3
        1.1s   250.00nm          5.7mb
FHC    24.74 134 ePd    27 26.50   1.7
LGBM   24.91 131 eP     27 28.70   2.0
LRM    25.33 111 iPd    27 30.70   0.1
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TABLE 4-138

07d 19h

WDC	25.45	132	iPd	27	32.40	0.9
			eS	32	03.50	
RMT	25.99	133	eP	27	37.60	1.1
FCC	26.20	71	eP	27	37.00	-1.3
IMW	27.50	112	iPc	27	51.50	0.8
SEY	27.53	301	iPc	27	50.50	0.1
	7.5s	2700.00nm				6.0mb X
	Z 16s	149.00um				6.7MszX
	N 16s	65.00um				
	E 16s	52.00um				
			isP	28	04.50	
			iPPP	28	48.50	
			iS	32	27.50	
WCN	27.59	129	iPd	27	52.10	0.7
BMN	27.62	124	iP	27	51.90	0.3
	2.0s	696.00nm				6.0mb
			i	28	03.90	
BKS	27.96	134	iPd	27	55.00	0.5
	1.1s	510.00nm				6.1mb
	Z 20s	25.00um				5.8Msz
	N 20s	25.00um				
	E 20s	52.00um				
			epP	28	06.50	44kmX
			esP	28	12.00	
			ePcP	31	07.50	
			epPcP	31	20.50	
			eS	32	43.00	
			esS	33	03.00	
			eSS	33	52.00	
BEI	28.53	115	eP	28	00.30	0.4
JAS	28.54	132	iPd	28	00.20	0.4
			ePcP	31	10.00	
			eScP	35	08.00	
MHC	28.65	134	ePd	28	01.00	0.1
ARN	28.68	134	ePc	28	01.40	0.3
EUR	28.93	124	iP	28	03.00	-0.6
MNA	28.97	128	ePd	28	04.30	0.5
BDW	28.99	112	iPd	28	03.90	-0.2
SAO	29.23	134	ePd	28	05.20	-0.8
ALE	29.41	15	eP	28	06.00	-1.2
	0.7s	153.00nm				5.9mb
MGD	29.46	296	ePc	28	05.00	-2.8
	1.1s	80.00nm				5.4mb
	Z 20s	93.00um				6.4Msz
	N 20s	20.00um				
	E 17s	87.00um				
			ipP	28	17.00	46kmX
			isP	28	20.00	
			iPP	29	05.00	
			iPPP	29	08.00	
			iS	32	59.00	
			iSSS	34	45.00	
DUG	29.65	119	ePd	28	09.80	-0.1
FRI	29.65	131	ePd	28	09.70	0.0
PET	29.69	279	eP	28	06.00	-3.9
	2.0s	660.00nm				6.1mb
	Z 20s	51.00um				6.2Msz
	N 20s	47.00um				
	E 20s	72.00um				
			ePP	29	05.00	
			eS	32	58.00	
			eScS	38	45.00	
PRI	30.07	134	ePd	28	14.40	0.8
			ePcP	31	14.00	
PHAM	30.44	133	ePd	28	17.10	0.4
RSSD	30.53	104	iP	28	17.60	-0.2
			e	28	19.10	
RSON	30.83	85	ePd	28	18.00	-2.1
WKTM	31.18	131	iPc	28	23.50	0.1
SCCM	31.32	134	eP	28	24.70	0.1
MSU	31.33	120	iPc	28	25.50	0.7
MMU	31.96	119	iPd	28	30.60	0.1
TIK	32.37	324	iPc	28	30.00	-3.3
	0.8s	140.00nm				5.9mb
	Z 15s	88.00um				6.6MszX
	N 16s	24.00um				
	E 15s	64.00um				
			ePP	29	41.00	
			ePPP	30	00.00	
			ePcP	31	16.00	
			eS	33	40.00	
			eSSS	35	55.00	
			eScS	39	00.00	
SKR	32.40	278	iPd	28	30.00	-3.8
	1.0s	130.00nm				5.8mb
	Z 19s	25.70um				5.9Msz
	N 18s	35.90um				

	E 18s	36.70um				
			epP	28	40.50	38kmX
			ePP	29	34.20	
			ePcP	31	17.20	
			iS	33	41.00	
			iSS	35	36.00	
SDW	32.74	130	iPd	28	37.40	0.3
PAS	32.75	132	eP	28	37.00	0.0
			eS	33	56.00	
GOL	33.35	110	iP	28	42.20	-0.3
	1.0s	100.00nm				5.7mb
	Z 15s	56.30um				6.3Msz
			i	28	55.20	
GLD	33.38	110	iP	28	43.10	0.4
	1.0s	370.00nm				6.3mb
	Z 18s	89.20um				6.5Msz
			i	28	55.00	
FRB	34.49	50	ePd	28	50.00	-1.8
	1.1s	811.00nm				6.6mb
LHC	34.61	84	eP	28	51.50	-1.5
	1.4s	196.00nm				5.8mb
GLA	34.98	128	iP	28	57.00	0.7
			i	29	10.00	
ALO	36.80	116	iPd	29	12.00	0.2
	1.0s	223.00nm				6.0mb
	Z 20s	42.50um				6.2Msz
			e	29	24.50	
YAK	37.06	309	iPc	29	10.70	-2.8
	1.2s	180.00nm				5.8mb
	Z 10s	82.80um				6.8MszX
	N 12s	37.20um				
			iS	34	49.00	
			iScS	39	20.60	
KHE	37.92	353	iPc	29	28.00	7.5
	1.7s	1100.00nm				6.4mb
	Z 16s	28.00um				6.2MszX
	N 16s	17.00um				
	E 16s	9.70um				
			ePP	30	54.00	
			iS	35	09.00	
DAG	38.78	17	iPc	29	26.80	-1.0
	0.6s	113.00nm				5.8mb
			i	31	06.00	
KBS	39.80	6	iP	29	36.80	0.6
OPA	39.96	196	eP	29	36.90	-1.3
KUR	40.15	277	iPd	29	38.00	-1.4
	0.8s	160.00nm				5.8mb
	Z 16s	31.50um				6.3MszX
	N 16s	54.50um				
			ePP	31	09.00	
			iS	35	42.00	
			eSS	38	31.00	
HON	40.33	196	iP	29	40.30	-0.8
OCO	40.40	106	eP	29	41.30	-0.4
SCH	40.68	61	ePd	29	42.20	-1.5
	1.0s	410.00nm				6.1mb
TUL	40.88	104	iPd-	29	44.80	-0.7
	1.0s	805.00nm				6.4mb
	Z 18s	27.00um				6.2Msz
RLO	41.03	103	iPd	29	45.10	-1.7
FVM	41.79	97	iPc	29	51.70	-1.3
ELF	42.23	84	P	29	56.10	-0.5
UTO	42.28	87	iPd	29	56.50	-0.5
DLA	42.35	84	P	29	57.90	0.3
LDN	42.41	84	P	29	57.50	-0.5
BHO	42.56	104	iPd	29	58.70	-0.7
OLY	43.27	100	ePd	30	02.80	-2.3
OTT	43.28	77	eP	30	04.00	-1.1
JCT	43.53	112	e(P)	30	06.00	-1.4
	Z 18s	56.70um				6.5Msz
DHN	44.01	82	eP	30	09.80	-1.3
NRI	44.06	335	iPc	30	08.20	-2.9
	1.4s	190.00nm				5.7mb
	Z 20s	39.00um				6.3Msz
	N 20s	29.00um				
	E 20s	10.50um				
			ipP	30	17.50	31kmX
			ePP	31	52.00	
			ePPP	32	31.00	
			iS	36	37.00	
			eScS	39	57.00	
MNT	44.20	76	iPd	30	10.70	-1.8
	1.0s	280.00nm				6.0mb
PTN	44.24	77	eP	30	10.80	-2.1
RSNY	44.48	77	eP	30	13.30	-1.5
			e	30	25.00	
ATX	44.55	111	iP	30	15.30	-0.3

			pP	30	28.60	50kmX
			S	36	53.90	
APH	45.02	78	eP	30	17.60	-1.7
PWLA	45.33	97	iPd	30	20.70	-1.1
MRG	45.60	86	iPc	30	22.80	-1.1
			e	44	47.00	
BOD	45.64	312	iPc	30	21.90	-2.0
	1.3s	370.00nm				6.1mb
HKT	45.79	109	iP	30	25.60	0.2
			pP	30	37.40	42kmX
TUP	46.08	306	ePd	30	25.20	-1.5
	1.7s	70.00nm				5.3mb
RSCP	46.04	94	iP	30	25.70	-1.7
			e	30	36.00	
TKL	46.57	93	iPd	30	33.00	-0.9
NAV	47.01	89	iPd	30	33.80	-1.2
GPD	47.19	80	iPc	30	34.80	-1.6
BLA	47.27	88	iPd	30	36.00	-1.1
	1.1s	709.00nm				6.6mb
			epP	30	52.00	62kmX
			iS	37	29.60	
GMTN	47.43	80	iP	30	37.40	-0.8
CVL	47.62	86	ePc	30	38.80	-1.0
NA12	47.90	86	ePc	30	40.90	-1.1
AKU	48.16	26	iP	30	43.80	0.2
	1.4s	1230.00nm				6.7mb
REY	48.65	28	iP	30	46.80	-0.5
PRM	48.83	93	ePd	30	48.30	-0.9
JSC	49.21	92	eP	30	51.00	-1.1
TRO	49.31	6	iP	30	51.00	-1.4
VLA	49.33	288	iPc	30	51.00	-1.9
	Z 14s	112.00um				7.0MszX
	N 14s	30.50um				
	E 14s	62.60um				
			ePcP	32	11.00	
			ePP	32	42.00	
			iS	37	48.00	
			iScS	40	38.00	
			eSS	41	23.00	
KEV	49.49	3	iP	30	51.80	-2.0
	0.8s	268.00nm				6.3mb
	Z 24s	21.60um				6.1MszX
			i	31	00.90	
			eS	37	56.00	
SGS	50.45	92	ePd	31	00.80	-0.8
TSK	50.83	276	eP	31	01.50	-3.0
KIR	51.17	6	iP	31	04.60	-2.1
TOK	51.42	275	eP	31	11.00	2.1
			eS	38	29.00	
DDR	51.45	276	eP	31	06.80	-2.5
MAT	51.49	277	iPc	31	07.00	-2.5
	1.2s	273.00nm				6.1mb
	Z 20s	21.60um				6.2Msz
KYS	51.63	275	eP	31	06.80	-3.7
SRY	51.72	276	eP	31	07.90	-3.3
CN2	51.74	293	iPd	31	08.40	-2.9
			PP	33	05.00	
			PPP	34	07.00	
			S	38	20.00	
SOD	51.88	3	iP	31	09.80	-2.2
			e	01	46.00	
STJ	51.97	59	eP	31	10.50	-2.5
	1.2s	347.00nm				6.2mb
IIC	53.10	119	iPc	31	20.60	-1.5
CRX	53.24	119	iPc	31	21.60	-1.5
TAC	53.45	119	iP	31	18.50	-6.1
IRK	53.54	314	iPd	31	22.20	-2.4
	1.6s	170.00nm				5.8mb
	Z 16s	74.20um				6.8MszX
	N 16s	44.10um				
	E 20s	45.30um				
			epP	31	31.00	29kmX
			ePcP	32	34.20	
			ePP	33	31.00	
			ePPP	34	35.00	
			eS	38	49.00	
			eSPP	39	10.00	
			eScS	41	02.00	
			eSS	42	34.00	
IIP	53.61	119	eP	31	25.20	-0.7
SNY	54.15	293	iPd	31	26.50	-2.6
			PP	33	24.00	
			S	38	54.00	
			ScS	41	14.00	
IIT	54.16	118	eP	31	28.50	-1.3
III	54.24	120	eP	31	27.50	-2.8
			e	31	41.00	

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KJF	55.08	3	iPd-	31	33.50	-2.2			1.4s	1470.00nm		6.9mb	STB	66.86	18	iPd	32	54.00	-1.6
	1.0s	390.00nm				6.4mb	COP	62.59	13	iPd	32	26.20	-1.7	CLL	66.96	13	iPd	32	54.20	-2.1
	Z 24s	15.90um				6.0MszX		1.0s	292.00nm			6.4mb			2.5s	1100.00nm			6.5mb	
			i	31	43.00					iS	40	53.00					i	33	04.00	
			eS	39	03.00		SEM	62.59	328	iPd	32	24.50	-3.5				eS	41	44.00	
			e	01	51.00			2.7s	980.00nm			6.5mb					P'P'	01	21.00	
ZAK	55.46	313	iPd	31	37.00	-1.6				ePP	34	41.50		DOU	67.00	19	Pd-	32	55.00	-1.5
	3.7s	1320.00nm				6.4mb X				ePPP	36	21.90					pP	33	05.00	32kmX
	Z 16s	44.10um				6.6MszX				eS	40	41.60					PP	35	20.00	
	N 16s	42.20um								eScS	42	11.60					S	41	45.00	
	E 18s	8.67um					ECB	62.69	26	iPd	32	27.00	-1.6				SS	46	08.00	
			ePP	33	46.00			1.4s	1290.00nm			6.9mb					e	01	20.90	
			ePPP	34	55.00		ECP	62.95	26	iPd	32	28.70	-1.6	XAN	67.04	299	P	32	52.00	-5.1
			eSS	43	07.00			1.6s	920.00nm			6.7mb					PP	35	24.00	
			eSSS	45	04.00		MOS	63.56	357	iPd	32	34.00	-0.3				S	41	39.00	
SUF	56.52	4	iPd	31	43.80	-2.3		3.0s	5000.00nm			7.1mb		BGG	67.31	17	iPd	32	57.00	-1.5
	1.0s	428.00nm				6.4mb		Z 22s	20.70um			6.3Msz		FLN	67.39	23	iPd	32	57.20	-1.8
BER	57.14	16	iP	31	49.00	-1.5		N 22s	17.30um					MOX	67.45	14	iPd-	32	58.00	-1.4
NB2	57.19	12	P	31	48.60	-2.4				ipP	32	42.00	26kmX		1.2s	691.00nm			6.6mb	
DL2	57.38	292	iPd	31	49.50	-3.0				ePP	34	59.00			Z 16s	6.50um			5.9MszX	
			S	39	37.80					ePPP	36	23.00			N 17s	5.40um				
HFS	58.33	11	(P)	31	56.30	-2.6				iS	41	06.00			E 20s	4.80um				
KON	58.38	14	eP	31	57.20	-2.0				eSPP	41	29.00					i	33	07.50	
NUR	58.68	5	iP	31	59.00	-2.3				eScS	42	21.00					iPP	35	28.00	
	1.0s	420.00nm				6.5mb				eSS	45	18.00					iS	41	52.00	
	Z 26s	10.20um				5.8MszX	MVI	63.66	276	eP	32	35.00	-0.4				iSS	45	30.00	
			i	32	08.20					eS	41	06.00					iSSS	49	35.00	
			eS	39	56.00		SSE	64.04	287	Pd	32	35.50	-2.3	TNS	67.45	17	ePd	32	58.10	-1.4
			e	01	54.00			1.0s	50.00nm			5.6mb					eS	41	55.00	
BJI	58.87	297	Pd-	32	00.00	-2.9		N 14s	17.50um					BRG	67.49	13	iPd	32	57.80	-1.8
	1.5s	200.00nm				6.0mb		E 16s	15.80um						1.6s	560.00nm			6.4mb	
			pP	32	09.00	30kmX				i	32	39.00			Z 22s	6.00um			5.8Msz	
			eS	40	00.00					i	32	49.00			N 22s	4.00um				
			sS	40	17.50					S	40	44.00			E 22s	3.00um				
			ScS	41	49.00					sS	41	11.00					i	33	07.70	
			SS	43	56.00					ScS	42	26.00					eS	41	52.00	
UPP	58.93	9	iP	32	00.10	-3.0				eSS	45	18.00		GUMO	67.49	257	eP-	32	55.00	-5.0
	1.4s	900.00nm				6.7mb	OBN	64.16	358	iPd	32	36.20	-2.0	GUA	67.51	257	eP-	32	54.50	-5.7
			i	32	08.70			1.5s	1440.00nm			6.9mb			0.8s	89.60nm			5.9mb	
			iS	40	04.00			Z 20s	15.20um			6.2Msz			Z 22s	9.63um			6.0Msz	
PUL	59.57	1	iPd	32	05.50	-2.0		N 20s	6.60um								eS	41	45.00	
	1.5s	3200.00nm				7.2mb		E 20s	12.10um					LDF	67.62	23	iPd	32	58.60	-1.9
			ipP	32	15.00	31kmX				ipP	32	45.00	28kmX	WHN	67.64	293	Pd	32	58.00	-2.8
			ePcP	32	50.00					iS	41	10.00					PP	35	32.00	
			ePP	34	26.00		NJ2	64.32	290	Pd	32	37.00	-2.6				iS	41	50.00	
			eS	40	05.00					PP	35	00.00		WLF	67.66	18	P-	33	01.00	0.3
			eSP	40	23.00					ScS	42	26.00					pP	33	11.00	32kmX
			eSSS	46	32.00		HAM	64.47	15	iPd	32	40.60	0.3				e	35	42.00	
HHC	60.17	301	Pd	32	09.60	-2.4	WIT	64.67	17	eP	32	41.00	-0.6				S	42	01.00	
SVE	60.51	343	iPd	32	12.00	-2.0				isP	32	50.80		GRR	67.67	23	iPd	32	59.20	-1.6
	3.0s	2800.00nm				6.9mb				e	33	03.50		KSP	67.76	11	iPd	32	59.70	-1.6
			ipP	32	21.00	29kmX	DBN	65.14	18	iP-	32	45.00	0.4		1.5s	442.00nm			6.3mb	
			iS	40	20.00			Z 20s	9.00um			6.0Msz					i	33	09.20	
			eScS	42	00.00					isP	32	54.00					eS	41	55.00	
EKA	60.62	23	Pc	32	13.50	-1.2				ePP	35	16.00		HOF	67.81	14	iPd	33	00.00	-1.7
	1.4s	1120.00nm				6.8mb				iS	41	27.00			1.4s	435.00nm			6.4mb	
BTO	61.02	302	P	32	15.00	-2.8				isS	41	39.00					eS	41	55.00	
			S	40	35.00					eP'P'	01	29.00		LPF	67.98	24	iPd	33	01.20	-1.5
ARU	61.20	344	iPd	32	15.50	-3.1	WTS	65.49	17	iPd	32	45.50	-1.4	GRF	68.34	15	iPd	33	03.80	-1.2
	1.2s	700.00nm				6.7mb		1.1s	457.00nm			6.5mb			1.7s	651.00nm			6.5mb	
	Z 20s	15.50um				6.2Msz				isP	32	54.80			Z 17s	4.10um			5.7MszX	
	N 20s	19.00um								eP'P'	01	26.50					e	33	13.10	
	E 26s	11.50um					BRN	65.89	13	iPd	32	48.30	-1.1				iS	42	04.50	
			epP	32	25.00	31kmX	GTA	66.10	309	iPd	32	49.10	-2.0	PRU	68.43	12	Pd	33	04.00	-1.5
			ePPP	35	57.00					S	41	29.00			2.0s	570.00nm			6.3mb	
			eS	40	27.50		UCC	66.28	19	Pc-	32	49.60	-2.3		Z 18s	5.20um			5.8Msz	
			eSP	40	47.50					pP	33	01.00	38kmX		N 18s	4.20um				
			eScS	42	04.00					PP	35	14.00			E 17s	6.00um				
			eSS	44	35.00					S	41	40.00					i	33	13.30	
MUD	61.45	15	iPc	32	19.50	-0.8				e	01	26.00					e	35	36.00	
	1.2s	270.00nm				6.3mb	WMO	66.42	320	iPd	32	51.00	-2.1				S	42	05.00	
TIA	61.62	294	P	32	18.70	-3.1				iS	41	41.00		GWF	68.55	17	iPd	33	04.90	-1.4
			ePP	34	37.00					ScS	42	46.00		KRA	68.85	9	iPd	33	06.30	-1.8
			S	40	35.50		BNS	66.55	17	iPd	32	52.30	-1.4		1.3s	318.00nm			6.3mb	
DCN	61.67	26	iPd	32	19.90	-1.9		1.3s	690.00nm			6.6mb			Z 28s	18.80um			6.2MszX	
	1.5s	1520.00nm				6.9mb				iPP	35	20.00			N 28s	14.30um				
DDK	61.83	25	eP	32	21.00	-1.9				eS	41	42.00			E 28s	7.80um				
DLE	61.88	26	iPd	32	21.30	-2.0	ENN	66.55	18	iPd	32	52.20	-1.5				i	33	17.80	
	1.5s	1230.00nm				6.8mb		1.1s	438.00nm			6.5mb					i	33	24.30	
VAL	62.32	28	iP	32	24.30	-1.9				esP	33	00.00					eS	42	07.00	
			iS	40	41.00					e	33	07.00		ANP	68.87	284	iP-	33	08.00	-0.7
TIY	62.42	298	Pd	32	24.50	-2.7				eP'P'	01	24.50					iS	42	16.00	
			PcP	33	02.00		KLL	66.73	18	iPd	32	53.20	-1.7	BUH	68.93	17	ePd	33	07.30	-1.4
			PP	34	45.00		WAR	66.75	8	eP	33	00.00	5.1	STU	68.97	16	iPd-	33	07.00	-1.9
			S	40	50.00					e	33	20.00			1.0s	140.00nm			6.0mb	
			ScS	42	16.00					e	41	45.00			Z 20s	11.40um			6.1Msz	
ETA	62.50	26	iPd	32	25.70	-1.7				e	42	08.00		WET	69.07	14	iPd	33	08.40	-1.1

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		1.3s	385.00nm			6.3mb
	Z	22s	21.50um			6.3Msz
				eS	42 14.50	
KHC		69.17	13	iPd	33 08.80	-1.3
		1.1s	264.00nm			6.2mb
	Z	22s	6.00um			5.8Msz
	N	23s	3.80um			
	E	21s	3.00um			
				i	33 18.60	
				S	42 14.00	
ECH		69.22	18	iPd	33 09.00	-1.5
LVV		69.34	6	iPd	33 11.10	0.0
		6.0s	7100.00nm			6.9mb X
				iS	42 16.00	
				eScS	43 11.00	
				eSS	46 43.00	
GRC		69.45	21	iPd	33 10.10	-1.7
				i	33 20.10	
MFF		69.53	24	iPd	33 10.90	-1.4
BAF		69.57	18	iPd	33 11.20	-1.5
LOR		69.61	21	iPd	33 11.00	-1.8
ROF		69.71	18	iPd	33 11.80	-1.6
SSF		69.75	21	iPd	33 12.00	-1.7
FUR		69.84	15	iPd	33 13.20	-1.0
		1.0s	367.00nm			6.4mb
				eS	42 23.50	
SLE		69.86	17	ePd	33 12.40	-1.9
LBF		69.91	20	iPd	33 12.60	-2.1
TLG		69.94	327	iPd	33 12.80	-2.1
		1.7s	270.00nm			6.1mb
	Z	18s	35.50um			6.7Msz
	N	18s	64.00um			
				iPP	35 50.00	
				iS	42 15.00	
				eSP	42 42.00	
				iSS	46 44.00	
AVF		69.99	21	iPd	33 13.30	-1.8
AAA		70.05	327	iP	33 14.00	-1.6
		4.0s	2.60nm			3.7mb X
				iPcP	33 35.00	
				iS	42 24.00	
ZUL		70.12	17	ePd	33 14.00	-2.0
SMF		70.22	21	iPd	33 14.50	-2.0
TCF		70.27	22	iPd	33 15.20	-1.7
KMR		70.29	13	iP-	33 15.70	-1.2
VKA		70.31	12	iPd	33 15.80	-1.3
		5.0s	3110.00nm			6.7mb X
	Z	17s	3.84um			5.7MszX
				i	33 28.50	
				iPP	35 50.80	
				eS	42 27.40	
				sS	42 42.60	
PRZ		70.39	326	iPc	33 15.50	-2.3
		3.0s	1300.00nm			6.5mb
	Z	18s	6.00um			5.9Msz
	N	18s	7.00um			
	E	18s	32.00um			
				epP	33 26.00	34kmX
				ePP	35 51.00	
				ePPP	37 36.00	
				iS	42 28.50	
				eScS	43 18.00	
MZF		70.41	22	iPd	33 15.90	-1.8
UZH		70.42	7	iPd	33 15.00	-2.7
		1.4s	750.09nm			6.6mb
	Z	20s	10.00um			6.1Msz
	N	20s	7.00um			
	E	20s	5.00um			
				ipP	33 26.00	36kmX
				iPcP	33 38.00	
				iS	42 28.00	
JOS		70.44	9	iPd	33 16.40	-1.4
		1.4s	360.00nm			6.3mb
ZST		70.45	11	iP	33 16.70	-1.2
				e	37 12.50	
QZH		70.46	286	Pd	33 16.00	-2.2
				iS	42 26.00	
				SKS	43 04.00	
BHG		70.48	14	iPd	33 16.60	-1.5
		1.5s	515.00nm			6.4mb
SAX		70.48	17	ePd	33 17.00	-1.5
GAP		70.49	15	eP	33 17.40	-0.8
		1.3s	305.00nm			6.2mb
LLS		70.81	17	ePd	33 19.10	-1.3
SRO		70.94	10	iP	33 19.40	-1.5
	N	18s	7.79um			
	E	18s	4.67um			

				eS	42 34.30	
PSZ		70.97	9	iPd	33 20.20	-0.9
FRU		71.06	329	iPd	33 20.20	-1.5
		1.6s	900.00nm			6.6mb
	Z	18s	46.50um			6.8Msz
	N	17s	35.00um			
	E	20s	27.00um			
				ipP	33 29.40	30kmX
				iPcP	33 41.60	
				ePP	36 00.00	
				ePPP	37 43.00	
				iS	42 30.00	
				eSS	47 00.00	
OGA		71.09	16	iPd	33 21.20	-0.8
RJF		71.09	23	iPd	33 19.90	-1.9
OSS		71.15	16	ePd	33 21.10	-1.3
KBA		71.17	14	iPd	33 21.20	-1.3
		1.0s	445.00nm			6.5mb
				i	33 31.30	
VDL		71.25	17	ePd	33 22.20	-0.8
LFF		71.30	23	iPd	33 21.70	-1.3
BUD		71.33	10	eP	33 22.00	-1.2
DIX		71.34	18	ePd	33 22.60	-1.1
BMR		71.45	7	ePc	33 23.00	-0.9
MMK		71.46	18	ePd	33 23.40	-0.9
TMA		71.54	17	ePd	33 22.90	-1.8
CAF		71.56	22	iPd	33 22.90	-1.8
LPO		71.63	23	iPd	33 23.30	-1.7
SSB		71.66	21	eP	33 24.00	-1.3
CD2		71.92	301	Pd	33 24.80	-2.3
				S	42 37.00	
NRN		72.02	327	iPd	33 26.60	-1.2
				eS	42 45.00	
SAL		72.26	16	eP	33 27.00	-1.7
KIS		72.32	3	iPd	33 27.00	-2.1
		2.0s	2200.00nm			6.8mb
	Z	20s	5.80um			5.8Msz
				ipP	33 36.00	29kmX
				iS	42 50.00	
LJU		72.32	13	eP	33 26.90	-2.3
				eS	42 36.50	
CJR		72.41	7	eP	33 28.30	-1.4
TRI		72.57	14	iPd	33 28.10	-2.5
				iPP	36 20.00	
				iPPP	37 56.00	
				iS	42 52.00	
				i	43 45.00	
				iSS	47 37.00	
				iSSS	51 12.00	
CEY		72.61	13	eP	33 29.20	-1.7
ZAG		72.70	12	iPd	33 31.00	-0.4
				i(PPP)	37 20.40	
				eS	42 55.30	
BAC		72.71	4	eP	33 25.00	-6.4
VG1		72.72	17	iPc	33 31.00	-0.5
CLI		72.74	4	ePd	33 29.00	-2.6
PTO		72.82	31	iPd	33 30.60	-1.5
EPF		73.05	24	iPd	33 31.40	-2.1
BPA		73.06	85	eP	33 30.50	-3.4
PPE		73.08	4	ePd	33 32.00	-1.6
DEV		73.20	7	eP	33 35.00	0.7
TIM		73.24	8	iPd	33 33.00	-1.5
MLS		73.27	24	iPc	33 33.30	-1.5
VRI		73.40	4	ePd	33 34.00	-1.5
FRF		73.68	19	iPd	33 35.60	-1.5
LRG		73.74	20	iPd	33 36.20	-1.2
MLR		73.75	5	iPc	33 36.00	-1.6
TAS		73.77	332	iPd	33 36.00	-1.7
		2.0s	1100.00nm			6.5mb
				iPcP	33 45.00	
				iS	42 56.00	
SEG		73.79	85	eP	33 35.00	-3.1
KSH		73.87	326	Pd	33 37.00	-1.4
				iS	43 08.00	
LMR		73.88	20	iPd	33 37.00	-1.3
CMP		73.93	6	ePd	33 38.00	-0.6
CLO		74.00	7	ePd	33 38.00	-0.9
PAG		74.02	86	eP	33 37.00	-2.5
ISR		74.12	5	ePc	33 38.06	-1.7
FIR		74.15	16	iPd	33 39.00	-0.8
				i	33 51.00	
				iS	43 09.00	
LGN		74.42	97	iP	33 47.50	5.8
ANN		74.43	357	iPd	33 39.20	-2.2
		4.0s	2200.00nm			6.5mb X
	N	22s	26.40um			
				ePcP	33 50.20	

				iS	43 11.70	
GZH		74.48	289	iPc	33 41.30	-0.7
				iS	43 14.00	
GYA		74.56	297	Pd	33 40.40	-2.2
				S	43 13.00	
TLB		74.72	3	ePd	33 41.50	-1.6
MDN		74.77	86	eP	33 41.00	-2.8
HKC		74.78	288	eP	33 42.30	-1.4
				eS	43 14.00	
BUC1		74.89	5	ePd	33 40.00	-4.1
LIS		74.96	33	iPd	33 43.50	-1.0
CVF		75.00	18	iPd	33 43.10	-1.7
PYA		75.01	352	iPd	33 43.00	-1.8
		2.0s	660.00nm			6.3mb
	Z	24s	14.30um			6.2MszX
	N	24s	16.60um			
	E	24s	7.15um			
				iPcP	33 54.00	
				iPP	36 30.00	
				iS	43 20.00	
				eSKS	[illegible] 42.00	
				iSS	48 12.00	
EBR		75.21	25	eP	33 44.00	-1.9
				ePP	36 35.00	
				eS	43 16.00	
PML		75.34	86	eP	33 41.80	-5.3
PMCB		75.34	86	eP	33 40.30	-6.9
FDF		75.39	86	eP	33 40.60	-6.8
TOV		75.45	96	iPd	33 47.00	-0.8
		0.9s	100.00nm			5.8mb
GRO		75.49	350	iPd	33 47.00	-0.5
		1.5s	520.00nm			6.3mb
				iPcP	33 56.00	
				iS	43 23.00	
SOC		75.64	355	iPd	33 47.00	-1.4
		2.0s	600.00nm			6.3mb
	Z	21s	17.00um			6.3Msz
				ePcP	34 00.00	
				iPP	36 36.00	
				ePPP	38 25.00	
				iS	43 24.00	
MAK		75.67	349	iPd	33 48.00	-0.5
		6.0s	6000.00nm			6.8mb X
	Z	20s	23.00um			6.5Msz
	E	18s	4.50um			
				eS	43 26.00	
				eSP	44 02.00	
				eSSS	51 32.00	
TPT		75.70	180	iP	33 47.40	-1.5
		1.2s	295.00nm			6.2mb
PMO		75.72	181	iP	33 47.50	-1.5
		1.2s	295.00nm			6.2mb
GAR		75.74	331	iPd	33 46.90	-2.3
		1.7s	530.00nm			6.3mb
	Z	18s	10.30um			6.2Msz
	N	20s	14.00um			
	E	17s	16.70um			
				ePcP	33 56.90	
				ePP	36 36.90	
				iS	43 24.90	
				eScS	43 56.90	
				eSPP	44 13.90	
UAV		75.81	98	eP	33 49.00	-1.0
		0.8s	175.00nm			6.1mb
SDV		75.82	97	eP	33 48.50	-1.5
AQU		75.83	15	eP	33 48.00	-1.6
SAM		75.86	333	iPd	33 48.00	-1.8
		3.0s	3200.00nm			6.8mb
	Z	22s	10.00um			6.1Msz
	N	22s	6.50um			
	E	22s	6.00um			
				iPcP	33 58.00	
				iPP	36 41.10	
				iS	43 25.00	
RUV		75.91	180	iP	33 48.40	-1.6
		1.2s	440.00nm			6.3mb
VAH		75.96	180	iP	33 48.90	-1.4
		1.2s	490.00nm			6.4mb
PVL		76.05	6	iPd	33 48.00	-2.7
CAR		76.22	93	iP	33 48.00	-4.2
RMP		76.28	15	iPd	33 32.00	-20.0
				iPP	36 36.00	
				iS	43 32.00	
VTS		76.49	7	iPc	33 51.00	-2.1
DSH		76.53	332	iPd	33 52.00	-1.6
	Z	14s	26.50um			6.7MszX
				iS	43 34.50	

DUI	76.64	14	eP	33	52.50	-1.5
JMB	76.79	5	iPc	33	55.00	0.1
BAG	76.82	280	ePd-	33	52.00	-3.6
	1.3s	288.00nm				6.1mb
			eS	43	36.00	
KHO	76.89	329	iPd	33	53.60	-2.1
	6.8s	2600.00nm				6.4mb X
	Z 18s	27.70um				6.6Msz
	N 18s	13.90um				
	E 18s	12.20um				
			ePcP	34	06.60	
			ePP	36	44.60	
			ePPP	38	37.20	
			eS	43	38.00	
			eSS	48	34.00	
KUL	76.93	331	iPd	33	54.30	-1.4
	3.2s	2100.00nm				6.6mb X
	Z 14s	11.20um				6.3MszX
	N 14s	22.90um				
	E 14s	6.70um				
			iPP	36	46.60	
			iS	43	38.60	
SKO	77.00	9	iPd	33	54.60	-1.4
	1.2s	450.00nm				6.4mb
			iPcP	34	03.80	
			iS	43	44.00	
PLD	77.07	6	eP	33	55.00	-1.4
DIM	77.17	5	eP	33	57.00	0.1
MTA	77.20	351	iPd	33	56.00	-1.1
			ePcP	34	07.00	
			eS	43	41.40	
BKR	77.26	352	iPd	33	46.60	-11.1
	1.4s	370.00nm				
	Z 21s	11.90um				6.2Msz
	N 21s	7.50um				
	E 21s	7.10um				
			iS	43	44.00	
FUQ	77.30	102	eP	33	58.00	-0.4
KMI	77.42	299	iPd-	33	56.50	-2.4
	5.0s	1.70nm				3.3mb X
	N 16s	22.70um				
			pP	34	06.00	30kmX
			PPP	38	43.00	
			iS	43	43.00	
			SKS	44	02.00	
DMK	77.48	4	eP	33	55.50	-3.2
MMB	77.53	7	iPd	33	58.00	-1.0
KDZ	77.56	6	iPd	33	58.00	-1.1
BRT	77.71	12	iPc	33	58.00	-1.9
VAY	77.72	8	iPd	33	58.40	-1.6
OHR	77.80	9	iP	33	58.80	-1.7
			i	34	08.10	
			iS	43	49.40	
SGO	77.83	13	iPd	33	58.50	-2.1
	1.5s	590.00nm				6.4mb
SFS	77.84	31	iPd	34	01.00	0.3
			i	34	45.00	
			iPP	36	56.00	
			iS	43	58.00	
			eSS	49	10.00	
BOG	77.88	103	iP	34	00.00	-1.7
			eS	43	43.00	
BOCO	77.92	103	P	34	01.00	-1.0
KAS	78.00	359	iPc	34	00.50	-1.1
BAK	78.02	347	iPc	34	02.00	0.4
	4.0s	3100.00nm				6.7mb X
			iPcP	34	12.00	
			iSKS	44	04.00	
MAL	78 03	30	iPd	34	02.00	0.2
			iPP	37	00.00	
			iS	43	56.00	
LEN	78.20	351	iPd	34	02.00	-0.9
	1.5s	700.00nm				6.5mb
	N 20s	6.10um				
	E 20s	2.30um				
			ePP	37	05.00	
			ePPP	38	51.00	
			eS	43	54.00	
PPN	78.25	182	iP	34	01.60	-1.5
KVT	78.26	357	eP	34	02.20	-0.8
AFR	78.27	182	iP	34	01.80	-1.3
	1.2s	390.00nm				6.3mb
ISK	78.27	3	iP	34	01.80	-1.2
IST	78.29	3	iPd	34	01.50	-1.6
			iS	43	56.00	
PPT	78.29	182	iP	34	02.00	-1.3
	1.2s	475.00nm				6.4mb
KAT	78.33	341	iPd	34	03.00	-0.4
	7.0s	3100.00nm				6.4mb X
	Z 16s	34.40um				6.8MszX
	N 16s	43.00um				
	E 16s	19.50um				
			eS	43	59.00	
PAE	78.39	182	iP	34	02.60	-1.2
	1.2s	490.00nm				6.4mb
TVO	78.50	182	iP	34	03.30	-1.2
HRT	78.53	2	iP	34	03.30	-1.2
KZN	78.68	8	iP	34	03.00	-2.4
ERE	78.73	351	iPd	34	04.00	-1.7
			iS	44	00.00	
YLV	78.77	3	iP	34	04.30	-1.6
EDC	78.95	4	iPc	34	05.30	-1.5
GPA	79.07	2	ePd	34	05.90	-1.6
GRS	79.26	349	iPd	34	07.40	-1.3
	4.0s	2600.00nm				6.6mb X
	Z 18s	9.00um				6.2Msz
	N 18s	6.90um				
	E 18s	6.40um				
			iPcP	34	17.80	
			ePP	37	12.40	
			iS	44	05.00	
			eScS	44	19.60	
			iSP	44	48.00	
VAN	79.25	340	iPd	34	07.20	-1.3
	Z 20s	20.30um				6.5Msz
	N 20s	23.80um				
	E 20s	14.20um				
			ePcP	34	16.40	
			ePP	37	14.00	
			eS	44	05.00	
			eScS	44	22.00	
			ePS	44	54.00	
			eSS	49	12.00	
PSO	79.35	107	iP	34	07.50	-2.3
EZN	79.42	5	iPc	34	07.00	-2.3
ABA	79.60	24	iP	34	09.00	-1.3
DST	79.72	3	iPd	34	09.40	-1.6
RAB	79.86	242	iPd-	34	10.00	-2.0
PRK	79.99	5	iP	34	11.00	-1.4
MOM	80.04	247	eP	34	11.00	-2.0
ALT	80.30	2	iPd	34	13.20	-1.0
GUV	80.41	91	iPd	34	12.90	-2.1
MHI	80.62	338	iPd-	34	15.00	-0.9
	1.3s	246.00nm				6.1mb
			e	37	21.00	
			eSn	44	22.00	
SET	80.63	22	iP	34	14.00	-2.0
TAB	80.68	349	iPd-	34	16.00	-0.3
VLS	80.70	10	iP	34	14.50	-1.7
IZM	80.88	4	eP	34	13.10	-4.1
ATH	81.13	7	iPd	34	16.00	-2.4
			iS	44	23.50	
MEI	81.14	14	eP	34	16.00	-2.5
SVO	81.21	233	eP	34	17.00	-2.1
HNR	81.42	233	eP-	34	18.00	-2.2
			eS	44	28.00	
			eSS	49	44.00	
			eLQ	52	14.00	
CGP	81.70	272	eP	34	18.00	-3.7
CIN	81.70	4	iPc	34	19.80	-1.6
			i	34	30.00	
KKN	81.81	315	iPd	34	21.20	-1.2
	0.8s	150.00nm				6.1mb
BCK	81.90	2	iPd	34	20.40	-2.1
PKI	81.97	314	iPd	34	21.70	-1.7
	1.0s	260.00nm				6.2mb
DMN	82.04	315	iPd	34	22.30	-1.4
TEH	82.42	345	eP	34	23.00	-2.4
DAV	82.45	271	ePd-	34	24.00	-1.6
	1.0s	320.00nm				6.3mb
			eS	44	36.00	
ELL	82.60	2	iPd	34	23.90	-2.4
MSL	82.61	352	ePd	34	23.50	-2.7
			e	34	34.50	
			eS	44	39.50	
			eSP	45	27.50	
NDF	83.40	214	eP	34	31.00	0.7
SVA	83.48	213	eP	34	29.80	-0.9
JAY	83.53	253	ePd	34	29.00	-2.2
NDI	83.60	322	iPd	34	29.00	-2.4
	1.0s	200.00nm				6.2mb
	Z 22s	34.40um				6.7Msz
	N 22s	17.40um				
	E 22s	16.70um				
			iS	44	46.00	
NPS	83.93	6	iP	34	30.50	-2.5
KER	84.28	348	eP	34	35.00	0.1
LAT	84.32	245	eP	34	33.00	-2.1
RKT	84.39	169	iP	34	33.60	-1.6
	1.2s	240.00nm				6.3mb
CHG	84.61	299	iPd	34	34.00	-2.7
	1.0s	60.00nm				5.7mb
			eS	44	56.00	
CHTO	84.61	299	P	34	34.20	-2.4
BHD	85.60	350	eP	34	41.50	0.2
TZZ	85.71	251	iPd	34	40.00	-2.2
LMG	85.82	243	eP	34	40.00	-2.8
BDT	85.98	299	iPd	34	42.80	-0.6
	1.5s	380.00nm				6.4mb
HRI	86.06	357	iP	34	43.50	-0.3
PMG	86.70	244	eP-	34	43.00	-3.9
NST	86.89	297	iPc	34	46.20	-1.7
PCT	87.21	295	iPd	34	48.70	-0.8
	1.0s	42.40nm				5.6mb
JER	87.56	358	iP	34	50.00	-1.1
			eS	45	14.00	
KKM	87.90	279	ePd	34	49.00	-3.0
SHI	88.26	343	eP	34	53.00	-1.6
KHT	88.35	298	eP	34	58.50	3.5
PRNI	88.99	358	eP	34	57.50	-0.4
HLW	89.49	1	iP-	35	14.00	13.8
			iS	45	28.00	
NNT	89.80	296	eP	34	57.00	-4.9
KOU	90.08	224	iPd	35	00.60	-2.2
AAI	90.52	263	ePc	35	02.00	-3.1
NOU	90.98	222	iPd	35	05.30	-1.6
HYB	93.70	317	ePd	35	17.00	-2.8
	1.6s	308.00nm				6.5mb
			e	35	41.50	
POO	94.16	321	iPd	35	20.00	-1.9
	1.3s	279.00nm				6.5mb
SNG	94.21	293	eP	35	21.00	-1.1
MKS	96.09	270	ePc	35	28.80	-1.9
IPM	96.33	291	ePd	35	29.00	-2.9
CTA	96.59	240	iPd	35	31.00	-1.8
	1.2s	79.70nm				6.1mb
			i	39	24.00	
			iS	46	11.00	
			i	53	24.00	
MTN	97.07	256	eP	35	32.00	-3.0
GBA	97.62	316	Pd	35	34.70	-3.0
	0.9s	25.20nm				5.7mb
PSI	98.95	292	ePd	35	41.10	-2.5
	1.0s	37.30nm				5.9mb
LPB	99.17	107	eP	35	42.00	-3.0
			SKS	46	22.00	
ISO	100.05	245	ePdiff	35	45.00	-3.6
TRT	101.57	275	iPdiff	35	54.20	-1.2
ASPA	105.16	249	ePdiff	36	13.00	1.8
SOB1	105.96	80	ePdiff	36	12.90	-2.1
			e	40	12.80	
			e	40	36.30	
			e	40	42.80	
ITR	106.75	78	e(Pdif	36	30.00	11.5
ARO	107.28	350	ePKP	40	47.50	17.7
BAO	108.06	90	e(PKP)	40	10.00	-21.3
STK	108.93	238	ePKP	40	30.00	-2.4
CAN	109.01	231	ePdiff	36	32.00	3.9
			e	41	04.80	
TOO	112.33	232	ePKP	40	36.00	-2.7
BNG	113.85	15	ePdiff	36	56.00	5.9
	1.0s	5.00nm				
BNG	113.85	15	iPKPd	40	39.50	-2.8
	1.2s	25.00nm				
MEK	114.87	260	iPKPc	40	40.80	-3.1
BMA	115.94	90	e(PKP)	40	44.00	-2.1
KLG	116.97	255	ePKP	40	44.00	-3.8
BAL	119.08	259	iPKPd	40	49.00	-2.8
	0.8s	36.00nm				
KLB	119.40	257	iPKPc	40	49.40	-2.9
	1.0s	122.00nm				
NAI	120.37	355	ePKP	40	55.00	0.0
	1.2s	54.70nm				
MUN	120.46	258	ePKP	40	51.00	-3.3
NWAO	120.75	257	ePKP	40	52.00	-2.9
	1.0s	80.00nm				
AVY	136.65	339	iPKPc	41	23.80	-2.1
DRV	137.98	215	ePKP	41	18.00	-8.7
BUL	139.10	6	iPKPd	41	33.10	2.7
SLR	144.64	7	iPKPd-	41	36.70	-3.2
	1.4s	940.00nm				

07d 19h

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     Z  22s    12.40um          6.6Msz
PRE  144.65    7 iPKPd 41 37.00  -2.9
      1.3s  1200.00nm
KSR  144.68    9 iPKPd 41 33.50  -6.5
BPI  145.06    7 iPKPd 41 32.70  -8.0
CNG  145.32    1 iPKPd 41 37.00  -3.8
      0.9s   590.00nm
                ipP   41 48.00
EVA  145.45    6 iPKPd 41 39.30  -2.0
BFS  145.69    9 iPKPd 41 39.30  -2.4
      1.2s   706.00nm
PRY  145.78    8 iPKPc 41 39.50  -2.3
      1.0s   220.00nm
SWZ  145.84   12 iPKPc 41 39.00  -2.9
JOZ  146.47    1 iPKPd 41 48.70   5.9
VIR  146.87    9 iPKPd 41 43.00  -0.6
OKP  147.16   24 iPKPd 41 43.30  -0.6
      1.0s   320.00nm
SEK  147.17    8 iPKPd 41 42.40  -1.7
KIM  147.34   13 iPKPc 41 40.90  -3.4
      0.9s   226.00nm
                i     41 52.30
BLF  147.83   11 ePKP  41 39.00  -6.1
HVD  149.25   12 iPKPd 41 46.00  -1.3
      1.2s   240.00nm
SUR  150.35   21 iPKPd 41 46.90  -2.0
      0.8s    53.70nm
     Z  20s     4.61um          6.3Msz
                i     41 52.70
SPA  150.81  180 ePKPc 41 43.80  -4.7
      1.0s    23.00nm
     Z  19s     7.09um          6.5Msz
                e     41 53.00
TUH  150.94   24 iPKPc 41 47.50  -2.0
      0.6s    23.00nm
BLE  151.42   25 iPKPc 41 50.00  -0.2
      1.2s   196.00nm
GRM  152.04   11 iPKPd 41 48.00  -3.2
      0.6s   535.00nm
     Z  20s    10.30um          6.6Msz
MAW  165.45  230 iPKPd 42 03.90  -1.6
      0.9s    71.00nm
HVL  167.09  148 iPKP  42 00.00  -6.7
                epPKP 42 10.00
                i     43 09.00
                iPP   46 59.00
     534 obs associated

   SEP  12, 1983  15h 42m 08.57± 0.06s
   36.536 N ± 1.4km   71 122 E ± 1.0km
   DEPTH = 208.9km  ( 91 depth phases)
   6.3mb (130 obs.)
AFGHANISTAN-USSR BORDER REGION  (717)
     Slight damage in the Koshmir
     Valley. Felt (V) at Khorog,
     Pyandzh, Shaartuz, Dusti and
     Gissar; (IV-V) at Kulyab, Nurek,
     Dushanbe, Ordzhonikidzeabad,
     Tashkent, Garm, Ura-Tyube,
     Pendzhikent and Leninabad; (IV)
     at Ishkashim, Rushan,
     Kalininabad, Kurgan-Tyube,
     Samarkand and Andizhan; (III-IV)
     at Obigarm and Chimkent; (III)
     at Dzhirgatal and Naryn; (II-
     III) at Dzhambul and Talgar; and
     (II) at Frunze, USSR. Also felt
     in the Peshawar-Lahore area,
     Pakistan.

KHO    1.00   19 iPn   42 39.90   0.1
                eSn   43 01.00
KUL    1.75  322 iPnc  42 45.30  -0.3
                iSn   43 11.60
LNA    2.26  318 iPn   42 50.90   0.2
                iSn   43 20.90
OBG    2.45  333 iPn   42 52.20  -0.7
                iSn   43 24.80
GAR    2.54  346 iPn   42 53.00  -1.0
                eSn   43 25.50
KRU    2.58  319 iPn   42 53.60  -0.7
CGT    2.62  324 iPn   42 53.40  -1.3
                eSn   43 26.40
DZT    2.68    2 iPn   42 55.30   0.0
                eSn   43 29.30
DSH    2.75  318 iPnd  42 55.30  -1.0
                iSn   43 29.30
MUR    2.89   50 iPn   42 58.50   0.2
       0.4s     2.30nm
                eSn   43 37.30
URT    3.76  334 iPn   43 07.50  -0.7
FRG    3.88    7 iPnd  43 09.50  -0.2
       4.0s   80.00nm
                iSn   43 54.50
ANR    4.32   13 iPnd  43 14.80  -0.4
       4.0s   ********nm
NAM    4.46    5 ePn   43 16.20  -0.7
       2.2s   35.00nm
SAM    4.52  315 iPnd  43 16.70  -1.0
KSH    4.82   51 iPd   43 23.00   1.4
                S     44 17.00
TAS    4.99  344 iPnd  43 23.60  -0.1
       1.2s   ********nm
NRN    6.19   36 iPnd  43 36.90  -2.5
FRU    6.84   22 iPnd  43 47.40  -0.1
       3.2s   ********nm          6.9mb X
                iSn   45 04.00
QUE    7.23  210 iPd   43 52.00  -0.8
                eS    44 39.00
AAA    8.08   32 iPnd  44 03.60  -0.2
       3.0s   34.30nm          4.0mb X
PRZ    8.18   41 iPnc  44 04.50  -0.7
       2.0s 6900.00nm          6.5mb
TLG    8.26   34 iPn   44 04.50  -1.7
NDI    9.36  145 iPnd  44 18.40  -1.9
       0.7s  801.00nm          6.1mb
                iSn   45 04.40
MHI    9.38  272 iPnd- 44 17.60  -3.0X
       0.5s 1190.00nm          6.4mb
                eSn   45 33.00
ASH   10.28  282 iPc   44 28.50  -3.7X
       1.4s   ********nm          7.1mb
KHI   10.47  260 iPd   44 33.30  -1.5
VAN   10.48  282 iP    44 31.20  -3.5X
       4.0s   ********nm          6.9mb X
KAT   12.04  287 iPd   44 51.00  -3.6X
WMQ   14.60   55 Pc   45 26.20  -0.4
                sP    46 16.00
                S     48 03.00
                i     50 59.00
                ScP   53 42.00
                PcS   54 02.00
                ScS   57 07.00
DMN   14.81  123 iPd   45 27.80  -1.7
KKN   14.81  122 iPd   45 27.40  -2.1
PKI   15.04  122 iPd   45 30.50  -1.9
SEM   15.35   23 iP    45 33.90  -1.8
       1.9s 4740.00nm          6.6mb
                iS    48 16.90
TEH   15.97  273 ePc   45 43.00  -0.5
SHI   17.02  252 iPd   45 55.00  -1.0
BAK   17.05  289 iPc   46 10.00  13.9X
LNK   17.79  284 iPd   46 03.00  -0.9
                eS    49 12.00
LSA   18.09  106 iPc   46 09.80   2.1
                sP    47 08.40
                S     49 23.40
POO   18.09  172 iPc   46 08.30   1.0
MAK   19.29  297 iP    46 19.20  -0.2
       2.0s 8500.00nm          6.9mb
     Z  11s    11.70um
     N  11s    25.40um
                iS    49 38.00
KER   19.68  271 eP    46 24.50   0.9
GRS   19.74  286 iPd   46 24.00  -0.2
       3.0s 6100.00nm          6.6mb
                iS    49 55.00
TAB   19.77  282 iP-   46 26.00   1.4
KRV   19.79  290 iPd   46 24.00  -0.5
                eS    49 55.00
ELT   19.79   28 iPc   46 23.00  -1.3
       1.5s 2560.00nm          6.5mb
                iS    49 54.00
HYB   20.15  159 ePc   46 29.00   0.7
       0.8s 1570.00nm          6.6mb
                i     46 31.00   8kmX
                e     47 24.00
                eS    49 58.00
NVS   20.18   21 iPc   46 27.40  -0.9
       0.8s 2090.00nm          6.7mb
     Z  12s    21.70um          5.7MszX
     N  12s    15.80um
     E  12s    10.10um
                isP   47 26.70
                iS    50 01.00
NAK   20.46  285 iPd   46 33.00   1.8
                eS    50 13.00
GRO   20.61  297 iPd   46 33.00   0.3
       2.0s   ********nm          7.7mb X
     Z  10s   110.00um          6.5MszX
     N  10s    38.00um
     E  10s    60.00um
                iS    50 07.00
MTA   21.03  292 iPd   46 38.00   1.3
                ePP   47 13.40
                esP   47 37.40
                iS    50 23.80
ERE   21.16  288 iPd   46 39.00   0.8
                isP   47 40.80
                iS    50 22.80
STE   21.28  290 iPd   46 40.40   0.9
       3.0s    15.00nm          4.0mb X
                iPP   47 15.20
                isP   47 40.00
                iS    50 26.50
SVE   21.47  344 iPd   46 42.00   1.0
       2.5s 3000.00nm          6.4mb
     Z  10s    54.00um          6.2MszX
     N  10s    31.00um
     E  10s    21.00um
                esP   47 40.00
                iS    50 26.00
                eSS   51 16.00
ARU   21.59  341 iPd   46 43.30   1.1
       4.0s 7500.00nm          6.6mb X
     Z  12s    67.00um          6.3MszX
     N  12s    34.00um
     E  12s    29.00um
                iPP   47 19.00
                esP   47 45.50
                eS    50 29.00
                eSS   51 27.00
LEN   21.68  290 iPd   46 46.00   2.7
       2.8s 5000.00nm          6.6mb
                iPP   47 17.00
                ipP   47 25.00
                isP   47 46.00
                iS    50 35.00
BKR   21.99  292 iPd   46 49.00   2.7
       0.9s  910.00nm          6.3mb
                iS    50 40.00
AKH   21.99  291 iPc   46 48.60   2.2
       1.6s    30.00nm          4.6mb X
BHD   22.14  269 iP    46 49.50   1.8
                i     47 29.00
                iPPP  47 48.50
                iS    50 38.00
UER   22.18   40 ePd   46 29.80 -18.1X
                iPP   47 21.20
MSL   22.47  278 eP    46 52.00   1.1
                iPP   47 15.00
                iPPP  47 30.50
                i     47 50.50
                iPcP  50 38.00
                iS    50 45.50
                eSS   51 35.50
ABS   22.50  292 iPd   46 53.40   2.4
       0.5s   400.00nm          6.2mb
                ePP   47 24.00
                iS    50 46.00
PYA   22.61  298 iPd   46 52.50   0.4
       1.5s 2370.00nm          6.5mb
     Z  20s    16.00um          5.5Msz
     N  20s    16.00um
     E  20s    19.00um
                iPP   47 25.00
                iS    50 42.00
GTA   22.76   74 iPc   46 56.00   2.2
                pP    47 37.00 221kmX
                sP    47 59.60
                sS    51 55.00
ZUG   23.26  294 iPd   47 01.00   2.6
       0.8s   206.00nm          5.8mb
                ePP   47 44.00
MOY   26.01   45 iPc   47 25.60   1.8
       1.5s 1540.00nm          6.5mb
                ePP   48 10.00
                ePcP  50 47.60
                eSS   53 00.00
LZH   26.31   81 iPc   47 28.50   1.7
       2.5s 4230.00nm          6.7mb
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TABLE 4-143

12d 15h

	N 10s 10.90um							isS 54 34.00						S 54 28.00					
	Lg 51 27.00				ISK	32.86 291 iP 48 24.60 0.2								ScP 54 42.00					
	Lg 51 50.00				ELL	32.89 283 iPc 48 24.40 -0.5								PcS 55 01.80					
ANN	26.81 299 iPc 47 30.00 -1.0				IST	32.91 291 iPc 48 24.50 -0.3								sS 55 45.00					
	0.8s 800.00nm 6.5mb					iS 53 30.00								ScS 58 46.20					
	eS 51 50.40				NST	33.11 121 iPd 48 28.60 1.8							MMB	36.78 293 iPc 48 58.00 0.4					
ZAK	26.89 49 iPc 47 33.20 1.4				PSN	33.31 296 iPc 48 30.00 1.8							SRE	36.83 298 eP 48 58.00 0.0					
	1.4s 1090.00nm 6.4mb				DST	33.37 288 iPc 48 28.80 -0.1							SRS	36.95 292 ePc 48 58.90 -0.1					
	epP 48 17.00 221kmX				TLB	33.39 298 iPc 48 29.00 0.1							DEV	36.97 300 ePd 49 02.00 2.9X					
	esP 48 38.00				PPE	33.68 300 iPc 48 31.00 -0.4							VTS	37.04 295 iPc 49 00.00 0.3					
	ePcP 50 48.00				DMK	33.76 293 iPd 48 31.50 -0.6							PAIG	37.08 290 ePc 49 00.10 0.0					
	eS 51 57.00				EDC	33.85 290 iPd 48 32.80 -0.1							CLO	37.09 299 iPd 48 59.00 -1.1					
	esS 53 11.00				CLI	33.91 301 iPc 48 34.00 0.6							SOH	37.17 292 ePc 49 01.10 0.1					
	eSS 53 23.00				CIN	34.14 285 iPd 48 32.50 -2.9							UZH	37.32 305 iPd 49 03.00 1.0					
KVT	27.59 290 iPd 47 39.00 0.8					i 51 08.00								1.0s 250.00nm 5.8mb					
CO2	27.64 92 iPc 47 40.70 2.0				BAC	34.18 301 ePd 48 37.50 1.9								iS 54 33.00					
	pP 48 24.00 217km				NRI	34.21 11 iPc 48 36.40 0.8							ATH	37.44 287 iPc 49 04.00 0.8					
	PP 48 34.00					2.0s 7400.00nm 7.0mb								eS 54 36.40					
	iS 52 09.00					epP 49 19.00 204km							KNT	37.46 292 ePc 49 03.30 0.0					
IRK	28.14 45 iPc 47 43.00 0.0					esP 49 42.00							THE	37.50 291 ePc 49 01.10 -2.5					
	1.3s 860.00nm 6.3mb					eS 53 41.00							APA	37.65 337 iPc 49 05.00 0.4					
	ipP 48 27.00 220kmX					esS 54 51.00								1.3s 380.00nm 5.8mb					
	esP 48 51.00				VRI	34.30 300 iPc 48 38.00 1.3								Z 12s 26.00um 6.3MszX					
	ePcP 50 45.00				JMB	34.56 294 iPc 48 40.00 1.1								ipP 49 48.00 203km					
	eS 52 11.00				IZM	34.62 287 iPc 48 39.10 -0.4								isP 50 10.00					
SIM	29.07 298 iPc 47 51.00 -0.3				PCT	34.68 121 iPc 48 42.50 2.3								iPP 50 34.00					
	Z 20s 7.50um 5.3Msz					1.1s 430.00nm 6.0mb								iS 54 39.00					
	N 20s 10.00um					e 49 37.00 273kmX								isS 55 53.00					
	E 20s 5.20um				BUC1	34.83 297 iP 48 40.00 -1.2							TUP	37.71 46 iPc 49 06.40 1.2					
	ipP 48 34.00 214km				MLR	34.85 299 iPc 48 42.00 0.5								1.0s 410.00nm 6.0mb					
	iPP 48 50.00				CGN	34.86 297 ePc 48 42.00 0.6								epP 49 50.90 211km					
	iS 52 26.00				PUL	34.94 325 iPc 48 43.00 1.1							SSR	37.85 298 iP 49 07.00 0.5					
HRI	29.10 274 eP 47 52.50 0.7					1.6s 4000.00nm 6.8mb							NUR	37.86 324 iPc 49 07.10 0.8					
KAS	29.29 291 iPc 47 52.80 -0.6					Z 12s 13.00um 5.9MszX								0.9s 735.00nm 6.3mb					
KMI	29.31 104 iPc+ 47 54.00 0.1					N 12s 5.40um								ipP 49 50.70 206km					
	3.0s 4.20nm 3.6mb X					E 12s 10.00um								isP 50 13.00					
	pP 48 41.00 236kmX					ipP 49 26.00 207km								iPP 50 32.00					
	sP 48 58.00					esP 49 49.00								eS 54 36.00					
	PcP 50 54.00					iS 53 57.00								esS 55 41.00					
	iS 52 34.00					esS 55 08.00								eSS 57 24.00					
	sS 53 52.00					eSS 56 28.00							GRG	37.86 292 ePc 49 06.10 -0.6					
	SS 54 27.00				OBO	34.99 233 iP+ 48 49.40 6.6X							KJF	37.91 331 iPc 49 07.20 0.5					
MOS	29.69 321 iPd 47 57.00 0.4				NNT	35.05 126 iPc 48 42.20 -1.1								0.9s 350.00nm 6.0mb					
	2.0s 1200.00nm 6.3mb				EZN	35.09 289 iPd 48 43.60 0.2								ipP 49 50.00 202km					
	Z 16s 12.80um 5.6MszX				BJI	35.25 70 iPc+ 48 46.00 1.3								isP 50 12.50					
	ipP 48 40.00 213km					2.0s 1850.00nm 6.3mb								ePP 50 36.00					
	ePcP 51 03.00					pP 49 33.00 222kmX								esPP 51 28.00					
	eS 52 36.00					sP 49 55.00								eS 54 44.00					
	esS 53 44.00					PcP 51 11.00								esS 55 48.00					
OBN	29.98 319 iPd 47 59.50 0.3					S 54 04.00								eSS 57 20.00					
	2.0s 2300.00nm 6.5mb					ScP 54 37.00							SUF	37.94 328 iP 49 07.60 0.6					
	Z 20s 9.00um 5.4Msz					PcS 54 57.00							LIT	37.95 291 ePc 49 06.40 -1.0					
	N 20s 6.70um					sS 55 23.00							BSI	38.02 139 iPc 49 07.00 -1.2					
	E 20s 7.80um					(SS) 56 37.00								1.0s 1250.00nm 6.5mb					
	iS 52 38.00					ScS 58 37.00							TIM	38.15 300 iPc 49 10.50 1.5					
JER	29.99 272 eP 48 00.00 0.3				MKL	35.29 233 eP+ 48 46.70 1.5							WAR	38.27 310 eP 49 14.00 4.1X					
	eS 52 40.00				DIM	35.35 293 iPd 48 46.00 0.5								e 49 55.00 192kmX					
CHG	30.15 118 iPc 48 01.00 -0.1				BOD	35.36 39 iPc 48 44.80 -0.6								e 50 19.00					
	1.0s 190.00nm 5.8mb					1.1s 1350.00nm 6.5mb								e 50 45.00					
	eS 52 52.00				TDD	35.38 233 iP+ 48 47.50 1.5								e 50 55.00					
PRNI	30.65 269 eP 48 06.00 0.6				ATA	35.45 232 iP+ 48 48.20 1.6								e 54 48.00					
BDT	31.25 121 eP 48 13.80 3.2X				CMP	35.50 299 ePc 48 56.00 9.2X							JOS	38.49 304 ePc 49 12.00 0.3					
	1.0s 745.00nm 6.3mb				PVL	35.54 295 iPc 48 48.00 0.9								0.8s 100.00nm 5.5mb					
HHC	31.66 70 iPc 48 15.60 1.5				KDZ	35.57 293 iPd 48 47.00 -0.4							GZH	38.71 98 iPc 49 15.20 1.4					
	S 53 12.00				ARO	35.62 233 iP+ 48 49.60 1.4								sP 50 22.00					
GYA	31.77 98 Pc 48 16.00 0.7				DAF	35.77 233 iP+ 48 50.70 1.4								iS 54 58.00					
	sP 49 23.00				COZ	35.98 299 iPd 48 52.00 0.9							KRA	38.87 307 iPc 49 15.10 0.2					
	S 53 09.00				PLD	35.99 293 iPc 48 53.00 2.1								0.8s 452.00nm 6.1mb					
	PcS 54 43.00				LVV	36.22 307 iPc 48 53.80 1.0								Z 12s 11.10um 5.9MszX					
GPA	32.00 289 iPc 48 17.30 0.3					Z 16s 8.00um 5.6MszX								N 12s 7.70um					
BCK	32.21 284 eP 48 17.60 -1.4					E 10s 5.20um								E 12s 7.20um					
ALT	32.31 287 iPc 48 19.30 -0.6					ipP 49 37.00 202km								i 49 20.30 18kmX					
HRT	32.43 290 iP 48 21.10 0.4					isP 49 56.00								i 49 26.80					
YLV	32.68 290 iP 48 23.20 0.2					iPP 50 17.00								i 49 37.30					
KHT	32.70 124 iPd 48 25.00 1.8					iPcP 51 17.00								i 49 56.80					
TIY	32.77 75 iPc 48 24.80 1.0					iS 54 18.00								i 50 21.00					
	pP 49 08.50 212km				WHN	36.29 87 iPc 48 55.00 1.4								iS 54 58.00					
	sP 49 31.00					pP 49 37.00 195kmX							PSZ	38.94 303 iPc 49 18.40 2.8					
	S 53 28.00					sP 50 02.00							MCO	39.37 99 iP 49 20.60 1.4					
	sS 54 39.50					PcP 51 14.00							NJ2	39.37 82 iPc 49 20.00 0.8					
	SS 55 48.00					S 54 19.00								pP 50 07.00 223kmX					
	ScS 58 25.00					sS 55 34.00								sP 50 28.00					
KIS	32.84 302 iPc 48 24.00 -0.2					SS 56 56.00								PcP 51 23.00					
	1.0s 1700.00nm 6.6mb				CJR	36.45 301 eP 48 57.70 2.8								iS 55 06.00					
	ipP 49 07.00 208km				TIA	36.77 76 iPc 48 58.80 1.3							BUD	39.54 303 eP 49 20.00 -0.4					
	isP 49 28.00					sP 50 05.00								1.2s 260.00nm 5.7mb					
	iS 53 26.00					PcP 51 15.50							DL2	39.61 71 iPc 49 22.60 1.6					

12d 15h

			epP	50	09.00	220kmX				i	50	29.50	210km				SS	59	36.00				
			sP	50	30.00					e	50	50.00		NB2	44.41	323	P	49	59.30	-0.5			
			iS	55	11.00					i	52	29.70		KHE	44.48	357	iPc	50	02.00	1.9			
			isS	56	28.00					i	55	50.00			3.0s	6000.00nm				6.5mb			
SNG	39.72	130	iP	49	23.00	0.8	BRG	42.68	308	iPc+	49	46.60	0.6				ipP	50	47.00	209km			
	1.5s	2170.00nm				6.5mb		1.3s	460.00nm				5.8mb				isP	51	07.00				
			i	51	24.00					ipP	50	30.80	206km				iPcP	51	41.00				
			iS	55	12.50					isP	50	53.80					iPP	51	48.00				
MKC	39.76	99	iP	49	24.10	1.6				iScP	55	02.70					iS	56	19.00				
			iS	50	31.00					eS	55	54.00					isS	57	36.00				
SRO	40.00	303	iP	49	25.50	1.3				esS	57	04.00					iSS	59	38.00				
			e	50	09.90	209km	LJU	42.76	301	iPc	49	47.40	0.7	GRF	44.52	307	iPc	50	01.90	1.1			
			i	50	33.90					ipP	50	32.40	210km		1.4s	983.00nm				6.1mb			
			e	52	01.90					e(PcP)	52	31.20			Z 18s		9.50um			5.8Msz			
AAE	40.14	235	iP	49	28.20	2.2				eS	55	50.80					ipP	50	44.80	198kmX			
SNY	40.48	66	iPc	49	28.00	-0.2				e(sS)	57	07.20					esP	51	07.70				
			S	55	16.50		KMR	42.78	304	iP+	49	47.00	0.1	FUR	44.67	305	iPc	50	02.60	0.6			
ZST	40.79	304	iP	49	31.50	0.9				i	50	32.30	212km		1.4s	1140.00nm				6.1mb			
			i	50	15.90	208km	CEY	42.88	301	iPc	49	47.90	0.2				i	50	47.50	208km			
			i	50	39.00					ipP	50	32.40	207km				eS	56	24.50				
			iSn	51	12.10		KHC	43.04	306	iPc	49	49.50	0.5	MNS	44.73	296	iPc	50	02.50	0.0			
			iSg	52	13.60			1.2s	210.00nm				5.5mb		1.7s	800.00nm				5.9mb			
KEV	40.80	338	iPc	49	31.50	1.0				e	50	34.30	209km				iPP	51	35.50				
	0.7s	211.00nm				5.8mb				e	52	37.60		RMP	44.85	295	iPd	50	02.50	-1.0			
	Z 16s	29.20um				6.2MszX				e	56	00.00			1.4s		2.80nm			3.5mb X			
			ipP	50	13.90	198kmX	BRN	43.07	311	iPc	49	50.00	0.9				iPP	51	46.00				
			isP	50	37.50					ipP	50	35.00	210km				iS	56	24.00				
			ePP	51	04.00					eS	56	00.00		GIB	44.86	290	eP	50	03.00	-0.7			
			esPP	52	00.00		SGO	43.22	293	iPc	49	50.50	0.0		0.9s	1000.00nm				6.2mb			
			eS	55	20.00		CLL	43.25	309	iPc	49	50.60	0.0	OGA	45.03	303	iPc	50	04.40	-0.7			
			esS	56	40.00			1.6s	470.00nm				5.7mb		1.4s	442.00nm				5.7mb			
			eSS	58	28.00					ipP	50	35.70	210km	MUD	45.31	316	iPc	50	07.80	0.9			
UPP	41.10	322	iP	49	32.10	-0.9				iScP	55	06.40			1.0s	200.00nm				5.5mb			
	1.1s	2000.00nm				6.5mb				eS	55	57.00					i	50	23.00				
			ipP	50	16.20	206km	TRI	43.34	301	i(P)	49	51.00	-0.4				ipP	50	53.00	209km			
			iPP	51	08.80					ipP	50	36.60	213km	KGM	45.43	132	ePc	50	09.20	1.0			
			iS	55	19.20					i	50	56.00			0.5s	311.00nm				6.0mb			
			iS	55	30.00					i	51	53.00					e	56	38.00				
KSP	41.19	308	iPc	49	34.00	0.1				i	52	36.00		SAL	45.60	301	iPc	50	09.00	-0.3			
	1.6s	627.00nm				5.9mb				i(S)	56	04.00		OSS	45.66	303	eP+	50	09.10	-0.9			
			i	50	18.90	211km	KBA	43.43	303	iPc	49	52.40	0.0	TIK	45.70	22	iPc	50	09.50	-0.3			
			i	50	41.50			1.6s	1010.00nm				6.1mb		3.0s	6100.00nm				6.5mb			
VKA	41.31	304	iPc	49	35.60	0.7				ipP	50	37.30	209km		Z 13s		5.90um			5.7MszX			
	3.2s	1330.00nm				5.9mb X				iPP	52	03.20			N 10s		2.70um						
			i	49	40.30					eS	57	36.00			E 13s		4.10um						
			ipP	50	20.20	209km				i	57	50.20					ipP	50	55.00	210km			
			isP	50	39.80					i	59	29.30					isP	51	18.00				
			iPP	51	28.50		COP	43.48	315	iPc+	49	53.00	0.6				ePcP	51	42.00				
			iPPP	52	21.80			0.9s	471.00nm				6.0mb				ePP	51	59.00				
TSI	41.46	136	ePc	49	36.50	0.1				ipP	50	38.00	210km				ePPP	52	50.00				
	0.7s	639.00nm				6.2mb				iS	56	07.00					eS	56	36.50				
CN2	41.50	63	iPc	49	36.80	0.2	WET	43.50	306	iPd	49	52.90	0.2				esS	57	56.00				
			pP	50	23.00	217km		1.7s	250.00nm				5.4mb	PPI	45.75	137	iPc	50	11.20	0.4			
			sP	50	47.00					eS	56	07.00		SAX	46.10	304	eP+	50	12.60	-1.1			
			PP	51	20.80		KLM	43.56	133	ePd	49	54.40	0.9	VDL	46.15	303	eP+	50	13.00	-1.0			
			PcP	51	29.80					e	50	40.00	213km	TNS	46.23	308	ePc	50	14.80	0.5			
			S	55	37.00					e	51	37.80					e	51	22.00	328kmX			
			sS	56	55.00		BHG	43.66	304	iPc	49	54.10	0.1				eS	56	48.00				
SSE	41.57	82	iPc+	49	38.80	1.6		1.7s	850.00nm				6.0mb	VLA	46.24	62	iPd	50	13.00	-1.4			
	1.4s	4340.00nm				6.8mb	YAK	43.89	35	iPc	49	55.00	-0.6				ipP	51	01.00	222kmX			
	N 10s	2.55um						1.8s	4280.00nm				6.6mb				ePcP	51	49.00				
			pP	50	23.00	207km				ipP	50	40.00	209km				ePP	52	09.00				
			sP	50	45.00					iPcP	51	40.00					iS	56	47.00				
			(PP)	51	46.00					iPPP	52	27.00					isS	58	03.00				
			iS	55	37.00					iSS	59	26.00		LLS	46.40	303	eP+	50	14.70	-1.3			
			sS	56	46.00		HOF	44.03	308	iPc	49	57.30	0.3	SLE	46.58	304	eP+	50	15.80	-1.3			
BRT	41.75	293	eP	49	38.50	0.0		1.5s	452.00nm				5.7mb	BUH	46.60	306	ePc	50	16.40	-0.9			
ZAG	41.79	301	eP	49	35.80	-3.0X				i	50	42.10	208km	TMA	46.63	302	eP+	50	16.10	-1.6			
IPM	42.01	132	ePc	49	42.20	1.2				eS	56	04.50		ZUL	46.70	304	eP+	50	16.50	-1.6			
	0.9s	637.00nm				6.1mb	MOX	44.17	308	iPc+	49	58.50	0.5	VG1	46.72	300	iPc	50	20.00	1.8			
			i	49	52.40	35kmX		1.4s	503.00nm				5.8mb	BNS	46.93	309	iPc	50	19.90	0.2			
			e	50	31.90			Z 13s		3.70um			5.5MszX		1.6s	650.00nm				5.8mb			
			e	50	51.50			E 13s		2.90um							i	51	05.40	209km			
			e	51	24.60					ipP	50	44.00	212km	GWF	46.95	306	iPc	50	20.30	0.3			
			e	52	09.90					isP	51	06.00		WIT	47.01	312	iPc	50	21.10	0.8			
			e	55	38.20					i	52	06.00					ipP	51	06.80	210km			
QZH	42.03	92	iPc	49	42.00	1.0				ipPP	52	20.00					isP	51	30.00				
			pP	50	28.60	219km				isPP	52	48.00					ePP	52	19.50				
			sP	50	49.00					iS	56	16.00		WTS	47.02	310	iPc	50	20.60	0.2			
			PP	51	29.00					isS	57	32.00			1.2s	478.00nm				5.8mb			
			PcS	55	24.50					iSS	59	52.00					ipP	51	06.70	212km			
			ScS	59	17.00		AQU	44.22	296	eP	49	59.50	1.0				isP	51	27.70				
KIR	42.10	334	iP	49	41.20	0.1	MEI	44.24	288	iPc	49	57.50	-1.2				iPP	52	15.00				
PSI	42.33	136	ePc	49	43.40	0.0	ANP	44.27	90	iP+	50	02.50	3.3X				ipPP	52	47.00				
			eS	50	32.00					iS	56	25.00		STB	47.20	308	iPc	50	22.00	0.2			
PRU	42.35	307	iPc	49	44.50	1.2	MDJ	44.30	61	iPc	49	59.00	-0.1				i	51	07.70	210km			
	1.5s	365.00nm				5.7mb				S	56	16.00		WMK	47.26	302	eP+	50	21.90	-1.7			

12d 15h

CDF	47.27	305	iPc	50	22.00	-0.5	LDF	52.03	307	iPc	50	57.60	-1.0				eS	59	22.00				
	1.5s	207.00nm				5.3mb				pP	51	43.20	204km	ALM	57.55	294	iPc	51	37.00	-1.3			
			pP	51	07.40	208km	FLN	52.22	307	iPc	50	58.90	-1.0		1.0s	15.00nm				4.7mb X			
ECH	47.38	305	iPc	50	22.80	-0.5				pP	51	44.30	203km				i	52	25.00	212km			
CVF	47.43	297	iPc	50	23.00	-0.7	LPO	52.23	302	iPc	50	59.70	-0.4				iPP	53	55.80				
			pP	51	08.00	206km				pP	51	45.30	204km				i	54	55.20				
KLL	47.52	309	iPc	50	24.20	-0.1	EKA	52.33	316	Pd	51	00.40	-0.2				iS	59	19.50				
			i	51	09.80	209km		1.2s	434.00nm				5.9mb	TAM	57.63	276	iP	51	20.00	-19.4X			
BAF	47.56	305	iPc	50	24.20	-0.6	LGP	52.38	102	eP	51	03.00	1.6	BNG	57.76	249	iPc	51	37.90	-2.2			
DIX	47.63	302	eP+	50	24.50	-1.1		1.0s	83.00nm				5.3mb		1.1s	295.00nm				5.9mb			
BSF	47.70	305	iPc	50	25.30	-0.5	LFF	52.46	302	iPc	51	01.40	-0.3	TRT	58.75	130	iPc	51	45.00	-1.8			
ENN	47.75	309	iPc	50	25.20	-0.8				pP	51	47.00	204km		1.3s	1150.00nm				6.4mb			
	1.1s	135.00nm				5.3mb	GRR	52.56	307	iPc	51	01.30	-1.1	MAL	59.03	295	iPc	51	46.50	-2.1			
			ipP	51	12.00	214km				pP	51	46.90	204km				ipP	52	34.00	208km			
			esP	51	33.00		MFF	52.58	305	iPc	51	01.50	-1.1				iS	59	32.00				
			iPcP	51	51.50		LPF	52.77	307	iPc	51	02.80	-1.2	ALE	59.03	354	iPc	51	48.10	0.0			
			ipPP	52	43.50			0.5s	76.00nm				5.5mb		0.5s	82.00nm				5.7mb			
WLF	47.78	307	P	50	27.00	0.7				pP	51	48.80	206km	REY	59.07	329	iP	51	49.70	1.2			
			pP	51	14.00	215km	MLS	52.82	300	iPc	51	03.00	-1.4				i	52	35.10	198kmX			
			e	51	39.00		MAT	52.85	69	iPc+	51	03.40	-1.3	AVY	59.42	206	iPc	51	51.50	-0.1			
			PP	52	27.00			1.4s	1220.00nm				6.3mb	SKR	59.86	47	iPc	51	51.60	-2.5			
			pPP	53	02.00			Z 20s		1.42um			5.0Msz		1.0s	540.00nm				6.2mb			
			S	57	09.00					eS	58	14.00			Z 14s		2.40um			5.5MszX			
			sS	58	17.00		EPF	53.32	300	iPc	51	06.50	-1.6		N 14s		2.30um						
			e	58	39.00		ABA	53.50	292	iP	51	08.00	-1.5		E 14s		1.40um						
HAU	47.96	305	iPc	50	27.30	-0.4	DDR	53.79	69	iPc	51	10.70	-1.0				ePcP	52	36.20				
DBN	48.01	311	e(P)	50	28.00	0.0	EBR	53.93	298	eP	51	12.00	-0.6				epP	52	40.30	213km			
	Z 20s		3.30um			5.3Msz				eS	58	22.00					eS	59	46.00				
			epP	51	13.00	205km				ePS	58	30.00					eScS	01	18.40				
			esP	51	36.00		SRY	54.00	69	iPc	51	13.30	0.1				eSSS	06	28.40				
			iPPP	53	23.00		OYM	54.05	69	eP	51	12.40	-1.2	PTO	60.20	301	iPc	51	56.00	-0.5			
			iS	57	14.00		MGD	54.18	37	iPc	51	13.00	-1.1				i	52	42.70	203km			
			isS	58	42.00			1.2s	1050.00nm				6.3mb				iS	59	52.30				
			eSS	00	48.00			Z 14s		2.90um			5.5MszX	PET	60.44	44	iPc	51	55.00	-3.0			
BAG	48.02	101	iPc+	50	29.50	0.8		E 14s		2.70um					3.0s	2200.00nm				6.3mb			
			i	51	38.00	332kmX				epP	52	00.00	210km		Z 14s		2.10um			5.4MszX			
			eS	57	14.00					ePcP	52	19.00			N 14s		1.50um						
DOU	48.70	308	Pc+	50	32.70	-0.6				ePP	53	15.00			E 14s		1.50um						
			pP	51	18.80	210km				ePPP	54	37.00					ePcP	52	40.00				
			e	51	27.20					eS	58	31.00					ePP	54	12.00				
			sP	51	39.50					esS	59	53.00		SFS	60.45	295	iP	51	57.50	-0.7			
			PcP	52	02.00		SEY	54.35	34	iPc	51	15.30	0.0	MNI	60.57	112	eP	51	58.20	-1.2			
			PPP	53	14.00			2.5s	3400.00nm				6.5mb				e(S)	54	27.10				
			pPPP	53	41.30					ipP	52	02.80	212km	IFR	60.94	292	iPc	52	00.10	-1.8			
			S	57	21.00					iPcP	52	15.80		MKS	61.34	122	iPd	52	04.10	-0.4			
UCC	48.72	309	Pc+	50	32.80	-0.7				isP	52	24.80			1.0s	1080.00nm				6.5mb			
			pP	51	19.00	210km				iS	58	38.00		LIS	61.60	299	iPc	52	05.70	-0.2			
			PPP	53	14.00		TSK	54.40	68	iPc	51	14.30	-1.7	TET	63.26	221	iPc	52	17.00	0.0			
			S	57	24.00		ETA	54.70	313	iPc	51	16.80	-1.2				i	59	03.00				
FRF	48.75	299	iPc	50	33.00	-0.9		1.1s	355.00nm				5.9mb				eS	00	33.00				
			pP	51	18.50	207km	DLE	54.74	314	iPc	51	17.30	-0.9	ILT	63.67	23	iPc	52	19.00	-0.1			
LMR	48.91	299	iPc	50	34.00	-1.0		2.2s	2280.00nm				6.5mb		1.2s	1250.00nm				6.6mb			
	2.0s	512.00nm				5.6mb	DAG	54.75	344	iPc	51	17.20	-0.9		Z 16s		3.30um			5.6MszX			
			pP	51	19.80	208km		1.0s	870.00nm				6.4mb		N 16s		0.90um						
LRG	48.98	299	iPc	50	35.00	-0.6				i	58	42.00			E 16s		2.30um						
			pP	51	20.50	207km	KYS	54.81	69	iPc	51	18.60	-0.4				iPcP	52	53.00				
NAI	49.31	228	iPc	50	40.00	1.4	ECP	54.94	313	iPc	51	18.40	-1.3				ipP	53	08.00	211km			
	1.3s	577.00nm				5.9mb		1.2s	820.00nm				6.3mb				isP	53	30.00				
SHK	49.37	73	iPc	50	39.00	0.3	LEM	55.04	134	ePd	51	17.00	-4.0X				iS	00	36.00				
MAN	49.41	103	iP	50	40.50	1.3		1.0s	60.00nm				5.2mb X				eScS	01	46.00				
LBF	49.74	304	iPc	50	40.70	-0.7				eS	52	48.00		AAI	66.48	114	ePc	52	36.50	-1.3			
			pP	51	26.20	206km	ECB	55.13	313	iPc	51	20.00	-1.1				eS	53	55.20				
LOR	49.76	305	iPc	50	40.30	-1.2		1.3s	1100.00nm				6.4mb	BRW	67.24	15	P	52	41.00	-0.8			
			pP	51	25.80	206km	DCN	55.15	314	iPc	51	20.40	-0.8	MBC	67.30	3	eP	52	43.00	0.9			
SSB	49.78	302	iPc	50	41.00	-0.7		1.5s	1770.00nm				6.5mb	KUPT	67.72	122	eP	52	44.50	-1.0			
SMF	49.92	304	iPc	50	42.00	-0.7	LGR	55.48	300	iPc	51	23.30	-0.5	GUMO	69.05	88	eP+	52	52.50	-1.2			
PGP	49.99	104	iPc	50	41.80	-1.8		1.6s		1.70nm			3.5mb X				eS	01	41.50				
	1.0s	186.00nm				5.6mb				ipP	52	10.80	211km	GUA	69.11	88	eP	52	52.30	-1.9			
SSF	50.04	304	iPc	50	43.00	-0.6				iPP	53	43.50			1.4s	744.00nm				6.2mb			
			pP	51	28.60	206km				eS	58	57.50		IMA	72.06	18	iPc	53	11.00	-0.2			
AVF	50.21	304	iPc	50	44.00	-0.9	SHO	56.40	57	iPc	51	20.00	-10.2X	JOZ	73.49	216	e(P)	53	28.00	8.2X			
GRC	50.27	305	iPc	50	44.50	-0.8		1.0s		0.40nm				MBL	73.54	133	iPd	53	20.20	0.0			
			i	51	30.40	207km		Z 14s		1.10um			5.1MszX	INK	73.87	9	iPc	53	21.90	0.4			
MZF	50.86	304	iPc	50	49.40	-0.5		N 14s		5.00um							pP	54	11.00	206km			
KKM	51.14	115	iPc	50	54.20	1.8		E 14s		2.40um				SLR	73.94	220	iPc	53	21.90	-0.7			
	1.0s	1280.00nm				6.4mb				ePcP	52	17.00			1.2s	1630.00nm				6.6mb			
			e	51	33.00	171kmX				eS	58	56.00			Z 18s		2.27um			5.5Msz			
OKH	51.27	47	iPc	50	54.00	1.2	KUR	56.64	55	iPc	51	31.00	-0.8	ADK	73.94	37	eP	53	20.20	-2.0			
	2.0s	••••••nm				7.0mb		1.0s	350.00nm				6.0mb	TTA	73.95	20	iPc	53	22.50	0.3			
			epP	51	41.00	212km				ipP	52	18.00	208km	PRE	74.00	220	iPc	53	23.00	0.0			
			ePPP	54	05.00					ePcP	52	26.00			1.0s	4160.00nm				7.1mb			
			iS	57	58.40					esP	52	40.00		EVA	74.17	219	iPc	53	24.00	0.0			
CAF	51.56	302	iPc	50	55.00	-0.2				iS	59	08.00		COL	74.41	16	iP	53	25.90	1.2			
			pP	51	40.50	204km	AKU	57.04	330	iP	51	34.90	0.5		Z 19s		3.13um			5.6Msz			
RJF	51.83	303	iPc	50	57.00	-0.1		1.6s	1080.00nm				6.3mb				e	54	14.00	201km			
			pP	51	42.50	204km				i	52	22.70	211km				eS	02	43.00				
SET	51.95	291	iP	50	56.00	-2.2	DAV	57.50	107	iP+	51	38.00	-0.2	FBA	74.41	16	iPc	53	24.80	0.1			

12d 15h

BPI	74.43	220	iPc	53	25.00	-0.5	PTN	93.63	336	P	55	02.80	0.8					ePS	11	12.00			
MTN	74.83	119	iPc	53	26.50	-1.3	LHC	93.64	347	iP	55	02.50	0.5	DRV	115.35	156	iPKP		00	24.50	-1.2		
KIC	74.89	267	iPc	53	26.80	-1.4		1.4s	835.00nm				6.7mb				e		01	28.00			
			S	02	43.80		PNT	93.99	7	iPc	55	04.20	0.5				e		02	39.00			
FRB	75.06	343	iPc	53	27.80	-0.6		1.0s	408.00nm				6.5mb	CAR	118.80	311	ePKP		00	33.30	-0.7		
PRY	75.33	220	iPc	53	30.00	-0.6				pP	55	56.00	210km		0.9s	70.60nm							
	1.5s	1640.00nm				6.5mb	APH	94.12	336	P	55	05.00	0.6	RHP	120.10	125	PKP		00	34.70	-0.8		
SEK	76.39	219	iPc	53	31.50	-5.0X	PGC	94.20	10	eP	55	05.50	0.9	MZX	120.54	357	ePKP		00	37.10	0.2		
VIR	76.58	219	iPc	53	37.50	0.0	HNR	94.60	98	eP	55	05.00	-1.8	TOV	121.07	313	ePKP		00	38.60	0.4		
	0.2s	422.00nm				6.8mb	STK	94.73	126	iPc	55	05.80	-1.2		1.0s	173.00nm							
SWZ	76.65	221	iPc	53	37.00	-0.9	RXF	94.79	4	iPc	55	07.60	0.1	TCW	121.82	120	PKP		00	36.80	-2.0		
PME	76.90	18	iPc	53	38.40	-0.2	ADE	94.93	130	iPc	55	08.40	0.4	WEL	122.20	120	iPKPd		00	38.60	-0.9		
	1.3s	907.00nm				6.3mb		1.0s	280.00nm				6.4mb		1.0s	608.00nm							
			epP	54	29.00	211km	LDM	95.19	4	iPc	55	09.30	0.1				pP		00	50.70			
PMR	76.90	18	iPc	53	38.50	-0.2	NEW	95.26	6	iPc	55	09.30	-0.2	BAO	122.43	274	iPKP		00	40.00	-0.8		
MEK	77.07	137	iPc	53	39.60	-0.5		1.1s	145.00nm				6.1mb	UAV	122.80	314	iPKPd		00	41.50	-0.2		
	0.8s	400.00nm				6.2mb				e	56	02.00	213km		1.0s	333.00nm							
BLF	77.76	219	iPc	53	43.50	-0.5	LHD	95.37	4	iPc	55	10.00	-0.1	BMA	123.02	265	iPKP		00	42.80	1.1		
KIM	78.20	220	iPc	53	45.10	-1.3	CLX	95.45	4	iPc	55	11.30	0.7	IIC	123.27	349	ePKPd		00	42.30	-0.3		
	0.8s	1280.00nm				6.7mb	ELF	96.77	340	P	55	17.10	0.7	IIP	123.63	349	ePKP		00	43.40	0.0		
KDC	79.19	22	iPc	53	51.70	0.6	LDN	96.88	340	P	55	17.30	0.4	CRX	123.69	350	ePKP		00	43.10	-0.4		
BAL	79.30	141	iPc	53	51.50	-0.6	DLA	97.15	340	P	55	18.35	0.2	III	123.85	348	ePKPd		00	43.30	-0.4		
HVD	79.32	219	iPc	53	52.00	-0.4	CMS	97.27	124	eP	55	18.00	-0.6	III	124.67	349	ePKPd		00	45.60	0.4		
	0.9s	737.00nm				6.4mb	BFD	98.72	130	eP	55	24.00	-1.0	VHO	125.30	346	iPKP		00	41.00	-5.5X		
MUN	80.16	142	iPc	53	55.50	-1.1	RSSD	99.60	356	iPd	55	29.80	0.3	ACX	126.21	349	ePKP		00	48.10	0.1		
MOM	80.22	100	eP	53	58.00	0.7	TOO	100.80	129	ePdiff	55	34.00	-0.5	SPA	126.35	180	ePKPd		00	45.80	-1.2		
PCA	80.30	15	iPc	53	58.50	1.3	COO	100.87	120	ePdiff	55	34.00	-1.0		1.0s	465.00nm							
KLB	80.62	141	iPd	53	58.20	-0.9	BDW	101.06	1	iPdiff	55	35.60	-0.2	SBA	126.59	165	iPKP		00	46.60	-0.4		
GRM	80.99	216	iPc	54	01.70	0.7		1.3s	33.60nm				5.7mb				S		02	46.00			
	0.8s	1890.00nm				6.9mb	CAN	101.70	125	ePdiff	55	37.80	-0.8	FUQ	126.84	314	ePKP		00	49.50	-0.2		
			i	54	49.50	196kmX				i	56	30.70		BOG	127.71	314	ePKP		00	50.50	-0.9		
YKA	81.21	3	eP	54	03.40	1.7				e	57	19.80		CHN	128.32	316	ePKP		00	49.50	-2.8X		
RSNT	81.22	3	iPd	54	01.70	0.0				eScP	00	01.00		ITB	132.11	268	PKP		00	52.50	-6.5X		
			i	54	51.60	205km	BLA	102.03	337	ePdiff	55	40.00	0.0	ITB1	132.18	268	PKP		00	55.20	-3.9X		
YKC	81.23	3	iPc	54	02.00	0.2		1.7s	127.00nm				6.3mb	ITB7	132.23	268	PKP		00	50.10	-9.2X		
			pP	54	52.00	206km	WDC	102.24	11	ePdiff	55	41.10	0.3	PSO	132.37	315	ePKP		00	46.00	-14.4X		
WBN	81.33	131	iPc	54	02.80	-0.1				e	56	31.80		LPB	138.82	288	PKP		01	03.00	-9.4X		
	0.8s	130.00nm				5.7mb	FVM	103.91	345	ePdiff	55	48.90	0.6				i		01	12.50			
NWAO	81.44	142	iPd	54	02.80	-0.5		1.6s	147.00nm				6.6mb	PAE	139.54	73	ePKP		01	08.00	-5.1X		
KLG	81.92	138	iPc	54	05.50	-0.3	MAW	104.01	183	iPdiff	55	49.20	1.3		1.1s	230.00nm							
WB2	81.94	122	iPc	54	05.50	-0.7		1.3s	57.00nm				6.3mb	YJA	139.91	279	e(PKP)		01	03.60	-10.7X		
			i	54	58.00	216km	GLD	104.01	357	ePdiff	55	50.70	1.8	SLA	141.16	275	ePKPd		01	07.00	-9.1X		
SCH	82.10	337	ePc	54	06.20	-0.4		1.4s	124.00nm				6.6mb	ARE	141.35	291	ePKP		01	10.00	-6.8X		
	1.5s	954.00nm				6.3mb		Z 22s	3.71um				5.9Msz	LM2	142.44	302	ePKP		01	14.00	-4.3X		
RKC	82.25	143	iPc	54	09.00	1.5	GOL	104.07	357	iPdiff	55	50.00	0.7	CYA	143.02	270	ePKPd		01	13.50	-5.6X		
STJ	82.40	325	eP	54	08.50	0.4		1.4s	44.40nm				6.2mb	TCA	143.14	265	ePKPc		01	14.50	-4.7X		
	1.7s	1200.00nm				6.3mb		Z 22s	3.53um				5.9Msz	TPL	143.60	282	ePKP		01	17.50	-2.6		
LAT	82.70	104	eP	54	10.00	-0.2	EUR	104.07	6	iPdiff	55	50.40	1.1	ANT	144.59	280	iPKP		01	20.30	-1.5		
SUR	83.15	221	iPc	54	13.20	0.9		1.0s	24.60nm				6.1mb				i		02	10.00			
	0.7s	1380.00nm				6.8mb	MIR	104.13	171	ePdiff	55	49.00	0.5	VCA	145.08	271	ePKPc		01	22.40	-0.3		
KVG	83.23	98	iPc	54	13.50	0.6	KOU	104.39	105	iPdiff	55	50.10	-0.6	CFA	146.16	266	ePKPd		01	23.00	-1.3		
SIT	84.12	14	P	54	17.90	1.2	RSCP	105.03	341	ePdiff	55	53.20	-0.2	CEN	146.56	267	ePKP		01	26.00	1.0		
ASPA	84.19	125	iPc	54	17.00	-0.6	JAS	105.12	9	ePdiff	55	54.50	0.8	MDZ	147.06	264	iPKP		01	25.50	-0.2		
FCC	84.26	352	iPc	54	18.20	0.9				e	56	45.80		RFA	147.28	261	ePKPc		01	26.00	0.0		
	1.2s	1050.00nm				6.5mb	PVC	106.00	100	iPKPc	00	12.00	2.7X	BACH	148.51	264	iPKP		01	29.40	1.4		
PMG	84.52	106	iPc-	54	19.00	-0.3	RLO	106.53	348	ePdiff	56	00.60	0.6				i		01	32.80			
	1.9s	4000.00nm				6.8mb	GBO	106.86	348	ePdiff	56	02.10	0.7	PCH	148.61	264	iPKPd		01	28.50	0.3		
TUH	84.74	221	iPc	54	21.50	1.5	TUL	106.90	349	ePdiff	56	01.80	0.2	PEL	148.61	265	ePKP		01	27.50	-0.7		
LMG	84.98	105	eP	54	21.00	-0.8		1.3s	71.70nm				6.7mb	SAN	148.68	264	ePKPc		01	28.00	-0.2		
RAB	85.30	99	iPc+	54	23.10	-0.2		Z 22s	2.52um				5.7Msz	CHCH	148.80	263	iPKPc		01	28.10	-0.3		
BLE	85.47	221	iPc	53	25.00	-58.6X		N 23s	1.06um					TACH	148.95	264	iPKPd		01	28.50	-0.1		
	1.0s	400.00nm						E 20s	0.30um					RKT	153.81	67	ePKP		01	37.00	1.1		
ISO	86.06	119	Pc	54	26.40	-0.5				e	00	25.50			1.2s	185.00nm							
FFC	88.91	356	iPc	54	40.40	0.3	NOU	107.04	105	iPdiff	56	02.20	-0.3		S.D. = 1.0 on 455 of 491 obs.								
			pP	55	32.00	209km	NOU	107.04	195	iPKPc	00	11.30	0.1										
CBM	89.22	333	P	54	45.00	3.3X	ISA	107.62	8	ePdiff	56	05.00	0.1		OCT 04, 1983 18h 52m 12.18± 0.33s								
CTA	90.47	115	iPc	54	47.00	-0.7	ISA	107.62	8	ePKP	00	09.00	-3.0X		26.523 S ± 1.8km 70.571 W ± 2.4km								
	1.4s	2380.00nm				7.0mb	BHO	108.25	348	ePdiff	56	08.90	1.3		DEPTH = 8.8 ± 1.9 km								
			i	55	40.00	215km		1.5s	127.00nm				6.9mb		6.3mb (57 obs.) 7.3Msz (17 obs.)								
			i	56	00.00		ALQ	108.85	358	ePdiff	56	12.00	1.4		NEAR COAST OF NORTHERN CHILE (122)								
			i	59	34.00			Z 22s	3.70um				5.9Msz		At least 5 people killed, 24								
			i	06	30.00		GLA	110.55	5	ePKP	00	19.00	1.4		injured and extensive damage								
			i(PKKP	12	15.80		ITR	110.86	275	ePKP	00	17.70	-1.0		(VIII) in the Copiapo-Chanaral								
EDM	90.53	3	iPc	54	48.70	1.1				e	00	58.60			area. A 1.5 meter uplift near								
			pP	55	40.00	208km	HKT	112.74	348	PKP	00	22.10	0.4		Chanaral was reported and some								
PHC	91.61	-12	ePc	54	53.50	0.9	JCT	112.80	352	ePdiff	56	28.50	0.5		roads were blocked by								
	0.7s	160.00nm				6.2mb		1.0s	9.52nm						landslides. Minor tsunami								
			pP	55	46.00	213km				e	56	36.00			recorded at Valparaiso. Felt in								
RSON	91.96	350	iPd	54	54.30	0.1	JCT	112.80	352	iPKP	00	22.00	0.0		Chile from Iquique to Santiago.								
			i	55	46.50	211km		1.0s	50.00nm						Felt in Argentina and at La Paz,								
BNH	92.36	334	iPc	54	56.50	0.3		Z 20s	2.31um				5.8Msz		Bolivia and Sao Paulo, Brazil.								
MNT	92.36	336	eP	54	56.50	0.4	SOB1	113.10	276	ePKP	00	22.50	-0.5		This appears to be a multiple								
	1.6s	346.00nm				6.2mb	VUN	114.24	95	iPKPd	00	24.60	-0.4		event.								
OTT	93.12	337	ePc	55	00.50	0.8		1.0s	62.50nm														
	1.8s	778.00nm				6.5mb	NVL	115.02	198	iPKP	00	25.00	0.1	ANT	2.81	3	iPc+		52	59.50	1.4		
			pP	55	52.00	208km		1.2s	160.00nm					TLL	3.64	183	iP		53	08.50	-1.6		
RSNY	93.50	336	iPc	55	02.20	0.7				iPP	01	32.00		FSA	4.11	85	ePc		53	25.00	8.4X		

04d 18h

CAC	4.26	20	iP	53	23.10	4.1X		0.8s	104.00nm		6.1mb		DUG	77.14	328	iPc	04	08.10	0.2
TPL	4.42	4	iP	53	19.90	-1.0				iS	11	23.20	SUR	77.38	120	iPc	04	10.20	0.5
CEN	5.28	163	eP	53	35.20	2.0	NAV	64.22	351	eP	02	48.60	-1.1	1.1s	139.00nm				6.0mb
MDZ	6.51	167	iP	53	51.20	0.6	NA12	64.53	354	iPd	02	51.50	-0.1	BDW	77.75	332	iPc	04	10.10	-1.3
			iS	55	13.60		CVL	64.59	353	eP	02	51.40	-0.6	EUR	78.14	326	iP	04	14.00	0.4
PEL	6.60	181	iPd	53	47.70	-4.1X	OLY	64.78	341	eP	02	50.70	-2.6	1.0s	56.20nm				5.6mb
BACH	6.81	179	eP	53	52.50	-2.2	BHO	64.80	338	iPc	02	52.40	-1.0	BEI	76.19	330	eP	04	13.50	-0.2
			e	53	53.00		LST	65.26	343	eP	02	55.30	-1.0	PRI	78.20	321	ePc	04	14.00	0.2
SAN	6.91	181	iPd	53	55.50	-0.6	POW	65.30	342	ePd	02	54.90	-1.7	FRI	78.27	322	eP	04	14.20	0.2
TCA	7.10	134	ePd	53	59.00	0.1	ELC	65.85	344	iPc	02	58.20	-1.9	MNA	78.48	324	eP	04	15.20	-0.2
LPB	10.20	14	Pc+	54	43.20	0.9	GBO	66.25	338	iPc	03	04.70	2.0	SAO	79.09	321	eP	04	18.00	-0.5
TMU	12.30	187	iPd	55	08.50	-1.8	MRG	66.39	352	iP	03	02.70	-0.8	TMI	79.20	331	eP	04	19.20	-0.1
			i	57	45.00		RLO	66.48	339	iPc	03	03.80	-0.4	IMW	79.25	332	eP	04	19.40	-0.2
ITB1	14.72	86	P	55	49.60	7.2X	TUL	66.51	338	iPc+	03	03.20	-1.2	JAS	79.36	322	ePc	04	19.70	-0.3
ITB	14.86	87	P	55	55.90	11.7X		1.0s	1600.00nm		7.2mb						ePKKP	23	29.00	
LM2	15.61	336	eP	55	55.00	1.0		Z 21s	151.00um		7.2Msz						eP'P'	31	42.50	
			eS	00	21.50					eS	11	54.00					e	35	00.00	
NNA	15.62	337	iP	55	56.00	1.7	PRIN	66.66	357	eP	03	05.30	0.1	BMN	79.48	326	eP	04	20.00	-0.8
	0.5s	35.20nm				4.9mb X	OCO	66.74	336	ePc	03	04.00	-1.9	ARN	79.55	321	eP	04	21.50	0.4
			eS	01	00.00		FVM	66.82	343	eP	03	04.00	-2.3	MHC	79.61	321	eP	04	21.60	0.1
VAO	21.71	86	eP	57	05.90	0.2	GMTN	67.14	357	iP+	03	10.90	2.6	RSON	79.71	345	ePc	04	20.50	-1.1
BAO	23.65	67	iPc	57	25.00	0.1	PAL	67.25	357	P	03	14.00	5.1X	RAR	80.13	251	P	04	24.00	-0.5
RDJ	25.09	88	iP+	57	39.20	0.6	GPD	67.29	357	eP	03	09.00	-0.2				S	14	59.00	
PSO	28.31	346	iP	58	10.50	1.7	INY	68.84	355	P	03	18.50	-0.4	BKS	80.32	321	eP	04	25.40	0.3
BOCO	31.11	353	P	58	35.00	1.3	LDN	69.90	352	P	03	23.65	-1.7		2.0s	1670.00nm				6.7mb
BOG	31.15	353	eP	58	34.00	0.0	ALO	69.93	329	iPc+	03	25.40	-0.6		Z 20s	30.00um				6.6Msz
CHN	31.68	350	iP	58	39.00	0.5		Z 18s	103.00um		7.1Msz				N 20s	70.00um				
FUO	31.95	354	eP	58	42.00	0.9				e	03	32.50			E 20s	90.00um				
SOB1	32.95	64	eP	58	49.20	-0.3	ELF	70.07	352	P	03	24.80	-1.6				i	04	32.80	
BMG	33.48	355	eP	59	00.00	5.9X	APH	70.11	357	eP	03	26.50	-0.1				i	04	52.00	
GUV	34.89	13	iPc	59	04.70	-1.5	TBI	70.51	253	iP	03	31.70	2.1				e(PP)	08	06.00	
	0.9s	33.30nm				5.2mb X		1.5s	280.00nm		6.2mb						iS	14	34.00	
UAV	34.93	359	eP	59	07.60	0.9	BNH	70.77	359	ePc	03	31.00	0.4				e(PPS)	16	34.00	
	1.0s	233.00nm				6.0mb	RSNY	70.82	357	eP	03	30.40	-0.5				e	18	55.00	
SDV	35.20	360	eP	59	08.50	-0.5	PTN	70.86	357	ePc	03	30.50	-0.7				eSS	20	11.00	
ITR	35.21	66	eP	59	09.90	0.9	EMM	70.97	2	eP	03	32.30	0.5				e	22	25.00	
TOV	36.10	1	eP	59	15.30	-1.2	KIC	71.59	73	iP	03	35.90	-0.4				e	23	17.80	
LGN	36.45	359	e(P)	59	25.00	5.6X				e	13	22.00					eSSS	23	29.80	
	0.6s	50.00nm				5.5mb	OTT	71.72	356	eP	03	36.00	-0.3	SCH	81.07	2	ePc	04	27.50	-1.2
CAR	36.98	6	iPc	59	23.00	-0.9		1.5s	1590.00nm		6.9mb				0.7s	310.00nm				6.5mb
	1.5s	611.00nm				6.1mb	MNT	71.73	358	eP	03	35.50	-0.9	LRM	81.43	332	ePc	04	31.20	0.1
OHC	37.74	171	iPd	59	30.00	0.3		1.2s	2000.00nm		7.1mb			MIN	81.71	323	eP	04	31.20	-1.4
SJS	38.54	338	eP	59	39.00	1.9	RUV	71.76	262	iP	03	39.00	1.8	HVD	81.76	120	iPc	04	35.70	2.5
BIM	41.83	14	eP	00	03.10	-1.0				ipP	04	00.30	81kmX		1.2s	324.00nm				6.3mb
MVM	41.90	14	eP	00	03.30	-1.4	VAH	71.96	262	iP	03	40.10	1.7				i	04	59.40	
MDN	42.53	13	eP	00	08.50	-1.3		1.6s	260.00nm		6.1mb			RMT	81.99	322	eP	04	35.00	1.3
MGG	43.13	13	eP	00	14.00	-0.7				ipP	04	01.40	81kmX	KIM	82.00	118	iPc	04	34.50	0.0
PAG	43.17	13	eP	00	11.50	-3.6X	TPT	72.05	262	iP	03	40.90	1.9		1.2s	360.00nm				6.3mb
SEG	43.57	13	eP	00	14.60	-3.7X		1.6s	335.00nm		6.2mb						i	04	48.80	
BPA	44.13	12	eP	00	19.00	-3.8X				ipP	04	02.30	81kmX	WDC	82.38	323	ePc	04	34.20	-1.6
SJG	44.57	6	eP	00	24.00	-2.5	PMO	72.29	262	iP	03	42.40	2.0				ePKKP	23	22.00	
	1.0s	1400.00nm				6.8mb		1.6s	275.00nm		6.1mb						eP'P'	31	37.00	
	Z 18s	110.00um				6.8Msz				ipP	04	03.60	80kmX				e	34	56.50	
SSU	45.09	336	eP	00	33.10	2.5	TVO	72.40	259	iP	03	43.30	2.2	LGBM	82.73	323	eP	04	37.40	-0.6
VHO	50.38	327	iP	01	11.00	-1.1		1.6s	475.00nm		6.3mb						ipP	04	45.50	26kmX
SOR	50.47	345	iPc	01	13.00	0.5				ipP	04	04.40	80kmX	BLF	82.95	119	iPc	04	38.50	-0.9
	Z 22s	219.00um				7.1Msz	PPN	72.66	259	iP	03	44.60	2.1				i	05	19.00	
ACX	51.67	323	eP	01	23.00	1.3		1.6s	105.00nm		5.7mb			SWZ	83.12	117	iPc	04	38.50	-1.8
IIT	52.67	326	eP	01	31.30	1.7				ipP	04	05.40	78kmX		0.3s	40.00nm				6.1mb
III	52.72	325	eP	01	30.70	0.9	GLA	72.67	322	eP	03	41.50	-0.8	FHC	83.32	322	eP	04	41.20	0.4
IIP	53.25	326	eP	01	35.10	1.2				ipP	03	50.20	28kmX	VIR	83.94	118	iPc	04	44.20	-0.3
TAC	53.44	326	iP	01	34.00	-1.2	PAE	72.73	259	iP	03	45.00	2.0				i	05	04.00	
CRX	53.69	325	eP	01	38.80	1.7		1.6s	405.00nm		6.3mb			PNO	84.09	328	eP	04	44.00	-0.5
RKT	58.01	258	iP	02	16.40	8.5X				ipP	04	06.00	79kmX	SEK	84.43	119	iPc	04	47.50	0.5
	1.4s	135.00nm				5.8mb	PPT	72.77	259	iP	03	45.80	2.6		0.9s	516.00nm				6.8mb
MZX	60.39	322	eP	02	25.10	0.9		1.6s	455.00nm		6.3mb						i	05	05.50	
HKT	61.14	335	iP	02	27.40	-1.8				ipP	04	06.40	78kmX	SES	84.55	335	eP	04	37.50	-9.3X
PRM	61.30	349	eP	02	29.00	-1.3	AFR	72.96	259	iP	03	46.20	1.9	KSR	84.96	116	iPc	04	46.50	-3.2X
ATX	62.26	333	iP	02	35.20	-1.6		1.6s	165.00nm		5.9mb			FFC	85.31	342	eP	04	49.00	-1.4
NVL	62.72	158	iPc	02	39.00	-0.4				ipP	04	07.20	79kmX		1.0s	76.00nm				5.9mb
	Z 19s	109.00um				7.0Msz	CBM	73.14	2	iPc	03	40.90	-3.8X	NEW	85.34	331	eP	04	50.30	-0.4
			ipP	02	51.00	41kmX	GLD	73.42	333	iPd	03	46.80	0.0				e	05	12.00	
			isP	02	59.00			1.5s	1080.00nm		6.7mb			BPI	85.73	117	iPd	04	51.70	-1.8
			iPcP	03	19.00			Z 21s	116.00um		7.1Msz						i	04	57.00	
			iPPP	06	28.00		GOL	73.44	333	eP+	03	46.00	-1.0	PRE	86.05	117	eP	04	54.00	-1.1
TKL	63.09	348	eP	02	39.10	-3.1X		1.2s	693.00nm		6.6mb			SLR	86.13	117	iPc	04	54.20	-1.3
JCT	63.20	332	iP	02	41.20	-1.9	STJ	75.48	12	ePc	03	57.50	-0.7		1.3s	258.00nm				6.2mb
	1.0s	550.00nm				6.7mb		1.0s	1410.00nm		7.0mb						i	05	08.40	
	Z 20s	78.00um				6.9Msz	TUH	75.74	120	eP	03	57.00	-3.2X	SHW	86.18	327	e(P)	04	55.30	0.2
			eS	11	13.00		CER	75.83	120	iP	04	00.50	-0.2	LON	86.37	328	ePd	04	55.00	-0.9
PWLA	63.37	344	eP	02	41.50	-2.6		0.6s	95.00nm		6.1mb			EVA	86.41	118	eP	04	56.50	-0.4
RSCP	63.40	346	iPc+	02	42.90	-1.4	LHC	76.46	347	iPc	04	02.80	-0.9				i	05	05.00	
SPA	63.63	180	ePd	02	43.80	-2.0		1.1s	935.00nm		6.8mb			BFW	86.87	327	eP	04	58.10	-0.3
	1.0s	379.00nm				6.5mb	RSSD	76.69	336	iPc	04	05.70	0.2	SFS	87.15	47	iPc	05	04.00	4.2X
	Z 20s	57.50um				6.8Msz	WKTM	76.70	322	eP	04	06.40	0.9				i	05	24.00	
			e	02	57.00		SCCM	77.07	320	eP	04	08.00	0.5				iPP	08	30.00	
BLA	64.07	351	ePc	02	47.70	-1.0				ipP	04	15.40	24kmX				iPPP	10	50.00	

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04d 19h

			iSKS	15	20.00			DCN	96.55	33	eP	05	48.80	5.8X		SAX	102.61	43	ePdiff06	11.20	0.2
			iS	15	57.00				1.2s	345.00nm			6.8mb			SAL	102.65	45	ePdiff06	12.00	1.2
			iSS	22	00.00			MFF	96.59	41	iPc	05	43.50	0.1		MNS	102.73	49	ePdiff06	12.00	0.8
FCC	87.19	348	ePc	04	59.10	-0.4		ETA	96.69	34	eP	05	47.50	3.8X					e	10	30.00
	1.2s	778.00nm				6.8mb			2.3s	1760.00nm			7.2mb			OSS	102.86	44	ePdiff06	12.00	0.0
PNT	87.22	330	eP	05	00.00	0.1		LPF	96.83	39	iPc	05	44.10	-0.4		BNS	102.93	39	iPdiff06	12.50	0.6
	0.9s	388.00nm				6.7mb		DLE	96.87	33	eP	05	50.00	5.5X					ePP	10	27.50
GMW	87.41	328	eP	05	00.20	-0.7			1.3s	630.00nm			7.0mb						eS	19	07.00
MAL	88.48	47	iP+	05	07.00	0.8		RJF	96.90	43	iPc	05	45.00	0.1		POI	102.98	49	ePdiff06	13.00	0.7
			iPP	09	00.00			CAF	97.04	43	iPc	05	46.00	0.4		WTS	103.18	38	ePdiff06	14.50	1.5
			iS	16	16.00			DMU	97.05	32	eP	05	47.90	2.6			1.2s	83.00nm			6.4mb
PGC	88.50	328	eP	05	06.40	0.4		HON	97.08	290	P	05	56.00	9.9X					e	06	31.00
GNZ	88.85	227	P	05	17.00	8.9X		GRR	97.12	39	iPc	05	45.40	-0.4					e	09	35.50
			pP	05	32.00	51kmX		KIP	97.13	290	eP	05	57.00	19.6X		AQU	103.20	49	ePdiff06	20.20	6.8X
			i	05	48.00			LSF	97.39	42	iPc	05	47.30	0.2		PCA	103.21	331	ePdiff06	11.00	-2.1
			PP	09	09.80			FLN	97.53	39	eP	05	47.60	0.0		WIT	103.46	37	ePdiff06	17.00	2.8X
ALR	88.95	49	iP	05	06.00	-2.5		LDF	97.65	39	iPc	05	48.00	-0.1					e	06	32.50
			i	05	15.00			TCF	97.82	42	eP	05	48.90	-0.1					e	09	39.50
			i	05	19.00				1.2s	90.40nm			6.3mb			OGA	103.49	44	iPdiff06	15.60	0.8
			i	05	29.00			MZF	98.01	42	iPc	05	50.00	0.1		CTI	103.55	45	ePdiff06	16.00	1.0
BUL	88.99	112	iPc+	05	09.00	-0.3		REY	98.03	19	eP	05	52.20	2.7		DUI	103.65	50	ePdiff06	22.00	6.7X
	0.8s	270.00nm				6.6mb					i	06	05.80						e	09	53.50
	Z 21s	229.00um				7.6Msz		SSB	98.74	44	eP	05	53.80	0.6		GRF	104.75	42	iPdiff06	20.70	0.6
	N 21s	131.00um						CDR	98.75	46	ePc	05	54.00	0.8			Z 19s	263.00um			7.8Msz
	E 21s	168.00um									e	09	33.30						e	06	35.40
			iPP	08	43.00			AVF	98.76	42	eP	05	53.10	-0.1					e	06	37.70
			iS	15	58.00			GRC	98.84	41	iPc	05	53.20	-0.3					eSKS	17	01.00
CRT	89.28	47	iPc	05	10.20	0.1					i	05	55.30			TRI	104.77	46	ePdiff06	19.10	-1.1
MNG	89.36	224	P	05	11.00	0.4		SMF	98.98	42	iPc	05	54.30	0.1					iPP	10	30.10
			e	05	35.00			SSF	98.98	42	iPc	05	54.00	-0.2					iPPP	12	40.00
WEL	89.41	223	P	05	12.00	1.2		LRG	99.02	46	iPc	05	55.40	1.0					iSKS	16	50.00
			PP	08	34.00			LMR	99.06	46	iPc	05	55.40	0.8					iSKKS	17	18.00
			SKS	15	39.00			LBF	99.22	42	iPc	05	55.20	-0.2					eS	17	50.00
			S	16	03.00			FRF	99.26	46	iPc	05	56.30	0.7					eSP	19	24.00
TCW	89.76	223	P	05	13.60	1.2		LOR	99.29	42	iPc	05	55.40	-0.2					eSPP	20	27.00
FRB	89.98	1	eP	05	12.00	-0.6		EKA	99.66	32	Pd	06	02.30	5.2X					eSS	25	37.00
RHP	90.48	219	eP	05	17.00	1.2			1.4s	102.00nm			6.2mb						eSSS	29	19.00
			i	05	39.30			CVF	100.26	48	iPdiff06	00.70		0.4		RBL	104.93	45	ePdiff06	23.50	2.5X
			e	05	55.20				0.8s	52.40nm			6.1mb			NAI	104.93	99	ePdiff06	20.00	-2.0
			ePKKP	22	45.10			AKU	100.27	19	ePdiff06	19.00		19.3X		KBA	105.03	45	iPdiff06	22.80	1.2
			ePKKP	22	54.10				2.1s	587.00nm							1.5s	243.00nm			6.9mb
			e	30	51.00				Z 18s	275.00um			7.8Msz						i	06	33.80
			e	31	06.00						e	10	35 40						i	06	37.50
TOL	90.52	45	iPc	05	16 00	0.2		NPA	100.29	113	ePdiff06	09.00		8.0X					i	06	51.70
			i	05	37.00						e	06	19.00						i	07	21.90
			i	05	43.00						ePP	09	47.00						i	10	12.50
			iPP	09	11.00						e	12	41.00						i	10	20.70
			iPPP	11	08.00			ERC	100.85	53	ePdiff06	10.00		7.0X					i	10	25.20
			iSKS	15	38.00			DIX	100.90	44	ePdiff06	04.20		0.8					iPP	10	51.30
			iS	16	05.00			ORO	101.05	44	ePdiff06	04.00		0.2					(SKS)	17	27.00
			i	17	50.00						e	10	13.00			INK	105.10	340	ePdiff06	21.00	-0.2
			iSS	22	20.00			DOU	101.07	39	Pdiff	06	03.40	-0.3			1.4s	125.00nm			6.7mb
			i	23	10.00						e	06	12.80			CEY	105.21	46	ePdiff06	23.00	0.7
			iSSS	26	05.00						PP	10	19.00						e	06	26.00
			i	29	31.00						SKKS	17	02.00						e	09	48.00
KRP	90.87	226	P	05	18.00	0.4					PS	19	11.00						ePP	10	48.00
			pP	05	33.00	51kmX					SPP	19	38.00						eSKS	17	02.40
			i	05	41.70			HAU	101.12	42	ePdiff06	03.80		-0.2		MOX	105.36	41	ePdiff06	23.00	0.2
			S	16	16.00				1.0s	45.60nm			6.0mb				3.8s	375.00nm			6.7mb X
BCAO	91.16	86	iPc	05	19.00	-0.3		MMK	101.23	44	ePdiff06	05.50		0.7			Z 24s	7.20um			6.1MszX
BNG	91.17	86	iPc	05	19.50	0.1		UCC	101.27	39	Pdiffc06	05.20		0.7			N 26s	181.00um			
	1.2s	100.00nm				6.0mb					PP	09	56.80				E 24s	482.00um			
KRI	91.37	109	iPc	05	20 00	-0.4					e	10	21.00						ePP	10	45.00
			iPP	08	59.00						S	17	12.00						iSKS	17	20.00
PHC	91.80	328	eP	05	29.00	7.7X		BSF	101.31	42	ePdiff06	04.50		-0.5					ePS	20	20.00
LGR	92.93	43	ePc	05	29.00	2.2			1.5s	148.00nm			6.4mb						ePKKP	22	30.00
			iPP	09	00.00			VG1	101.45	45	ePdiff06	06.00		0.6					iSS	25	45.00
			eSKS	15	58.00			CDF	101.86	42	ePdiff06	07.00		-0.4					iSSS	30	00.00
			eS	16	17 00				0.9s	37.40nm			6.0mb			HAM	105.52	38	iPdiff06	24.50	1.2
			iPS	17	24.00			ZUL	102.12	43	ePdiff06	08.50		0.0		KMR	105.89	44	e(Pdiff06	26.00	0.8
MTD	93.05	110	iPc	05	28.00	-0.1		ENN	102.14	39	ePdiff06	09.50		1.1		KHC	105.96	43	Pdiff 06	28.00	2.5X
			iPP	09	25.00				1.0s	48.00nm			6.1mb				Z 24s	158.00um			7.5MszX
ABA	93.55	50	iP	05	36.50	6.7X					e	06	25.50				N 23s	154.00um			
VAL	94.26	33	iP	05	32.00	-0.6					e	09	34.50				E 23s	163.00um			
			iS	17	15.00			LLS	102.23	44	ePdiff06	09.50		0.3					e	10	23.90
EPF	95.00	44	iPc	05	37.20	0.8		SLE	102.31	43	ePdiff06	09.00		-0.3		BER	106.09	30	iPdiff06	31.20	5.5X
YKC	95.36	341	ePc	05	36.70	-0.8		GWF	102.32	41	ePdiff06	09.50		0.2		MUD	106.31	35	ePdiff06	36.00	9.2X
	0.8s	72.00nm				6.2mb		DBN	102.33	38	ePdiff06	11.00		1.8			1.2s	60.00nm			6.5mb
RSNT	95.40	341	ePc	05	37.20	-0.4			Z 19s	256.00um			7.8Msz			NOU	106.50	234	iPKPc	10	46.20	6.5X
YKA	95.41	341	eP	05	38.40	0.7					ipP	06	30.00			TOA	106.69	332	ePdiff06	26.50	-2.0
MLS	95.43	44	iPc	05	38.60	0.3					ePP	09	58.00			BRG	106.82	41	ePdiff06	31.00	1.7
LFF	96.24	43	eP	05	42.10	0.2					eSKS	16	50 00				1.5s	30.00nm			6.1mb
GDH	96.30	6	iPd	05	43.60	2.0					ePPS	19	37.00						i	06	45.90
	1.0s	40.00nm				5.9mb		FIR	102.35	47	ePdiff06	15.00		5.5X					e	07	13.50
			iS	17	03.00						i	10	29.00						eSKS	17	25.00
LPO	96.38	43	eP	05	43.00	0.4		VDL	102.36	44	ePdiff06	10.00		0.2					ePKKP	22	12.50
	1.4s	228.00nm				6.5mb		RDP	102.49	50	ePdiff06	17.00		6.7X					eP'P'	30	36.00

PRU	106.86	42	ePdiff	06 29.80	0.4
	Z 25s	375.00um			7.8MszX
			e	06 46.50	
			e	10 05.00	
			e	11 05.00	
			iS	17 28.00	
BRN	106.95	40	ePdiff	06 31.00	1.2
TTG	107.25	51	ePdiff	06 32.00	0.6
			e	10 16.00	
			eS	17 18.00	
VKA	107.34	44	iPKP	10 37.70	-2.8
	6.5s	5510.00nm			
			iPP	10 56.80	
			e	11 07.00	
			SKKS	17 26.50	
KON	107.75	32	iPdiff	06 34.00	0.8
PMR	107.76	331	ePdiff	06 31.00	-2.2
	Z 20s	160.00um			7.6Msz
ZST	107.80	45	e(Pdif	06 41.00	7.3X
			e	07 41.00	
			e	08 20.00	
			e	09 57.00	
			e	10 16.00	
			e(PP)	11 15.00	
OHR	107.88	53	ePdiff	06 32.00	-2.3X
KSP	108.20	42	ePdiff	06 38.00	2.6X
			iPP	11 03.00	
SRO	108.44	45	ePdiff	06 36.50	0.0
			e(PP)	10 50.50	
			e(SKS)	17 38.50	
COL	108.49	334	ePdiff	06 36.00	-0.4
FBA	108.49	334	ePdiff	06 36.40	0.0
SKO	108.62	52	iPdiff	06 39.00	1.5
SKO	108.62	52	iPKP	10 38.00	-5.1X
			iPP	11 15.00	
			iSKKKS	19 11.00	
			iPS	21 08.00	
ATH	108.97	56	ePdiff	06 41.00	1.9
GRG	108.98	53	iPdiff	06 42.50	3.3X
			ePP	11 06.00	
			eS	17 04.00	
			eS	17 19.80	
			iS	17 40.00	
NB2	109.01	31	Pdiff	06 46.80	8.0X
	0.9s	7.50nm			
SSR	109.75	49	ePdiff	06 55.00	12.5X
HFS	109.86	32	(Pdiff	06 54.80	12.3X
SPC	110.09	44	ePdiff	06 44.80	0.7
MMB	110.13	53	ePdiff	06 54.00	9.7X
KRA	110.16	43	ePdiff	06 38.00	-6.1X
			e	07 02.00	
			i	11 20.00	
			iS	17 42.00	
CLO	110.53	49	ePdiff	06 50.00	4.1X
IMA	111.20	334	ePKP	10 40.00	-7.4X
UZH	111.23	45	ePdiff	06 50.00	1.1
UZH	111.23	45	iPKP	10 49.00	1.2
	Z 19s	150.00um			7.6Msz
			ipPKP	11 04.00	
			eSKS	17 20.00	
AAE	111.24	90	ePdiff	06 54.00	3.8X
WAR	111.44	41	e(Pdif	06 52.00	2.2X
			e	07 12.00	
			e	11 20.00	
			e	11 44.00	
EZN	111.48	55	ePKP	10 29.00	-19.6X
CJR	111.54	48	ePdiff	06 57.20	6.8X
UPP	111.67	33	iPdiff	06 51.00	0.5
			i	07 12.00	
			iPP	11 40.00	
			iSKS	17 45.00	
			i	21 14.00	
IZM	111.76	57	ePKP	10 30.00	-19.2X
BUC1	112.54	51	ePdiff	06 55.00	0.2
LVV	112.64	44	ePdiff	06 56.00	0.8
			iPP	11 40.00	
			iSKS	17 26.00	
VRI	113.41	49	ePdiff	07 15.50	16.8X
BAC	113.70	48	ePKP	10 55.00	2.4
ISK	113.83	55	ePdiff	07 05.00	4.3X
KBS	114.40	12	iPKP	11 06.00	12.9X
GPA	114.55	56	ePKP	10 41.00	-13.6X
KIS	115.11	48	ePdiff	07 07.00	0.8
	Z 23s	299.00um			7.8MszX
			iPP	11 53.00	
			iSKS	18 01.00	
NUR	115.23	33	ePdiff	07 06.00	-0.4

SUF	116.26	31	iPKP	10 52.00	-5.0X
	0.9s	8.20nm			
SOD	116.94	26	iPKP	10 58.50	0.3
			i	11 07.00	
			ePKKP	21 32.00	
KJF	117.12	29	ePdiff	07 16.00	1.3
KEV	117.23	23	ePdiff	07 16.00	0.9
SIM	118.30	51	ePdiff	07 24.00	3.5X
	Z 24s	325.00um			7.9MszX
	N 24s	261.00um			
	E 24s	388.00um			
			eSKS	18 02.00	
			eSSS	32 48.00	
APA	119.52	25	PKP	11 03.00	-0.1
APA	119.52	25	ePdiff	07 28.00	2.6X
NWAO	120.42	188	ePKP	11 03.00	-2.9X
ANN	120.52	52	ePKP	11 05.50	-0.1
	N 20s	160.00um			
	E 20s	160.00um			
			epPKP	11 18.80	
ANN	120.52	52	ePdiff	07 26.00	-4.3X
OBN	121.03	40	iPKP	11 05.00	-1.3
			iPP	12 35.00	
			iSKS	18 04.00	
			iPPS	23 50.00	
OBN	121.03	40	iPdiff	07 34.00	1.7
ILT	121.11	335	PKP	11 04.00	-2.1
MUN	121.47	187	ePKP	11 06.00	-1.9
CTA	121.50	221	iPKP	11 06.80	-1.5
MOS	121.64	39	PKP	11 07.00	-0.4
KLG	121.87	192	ePKP	11 10.00	1.3
SOC	122.06	54	ePKP	11 06.00	-2.7X
SOC	122.06	54	ePdiff	07 40.00	2.7X
MSL	123.58	62	ePKP	11 12.00	0.1
			i	11 30.50	
			i	12 51.50	
			e	15 43.50	
ISO	124.70	215	ePKP	11 12.00	-2.5
LEN	124.77	57	ePKP	11 14.00	-0.2
	3.0s	800.00nm			
			eSKS	18 15.00	
WBN	125.10	199	ePKP	11 14.00	-1.1
ERE	125.19	58	iPKPd	11 14.00	-1.0
SMY	125.85	317	ePKP	11 10.50	-5.2X
	Z 20s	95.00um			7.5Msz
GRO	126.36	54	iPKP	11 16.00	-1.0
			iPP	13 09.00	
KER	126.43	66	ePKP	11 19.50	1.8
MEK	126.45	190	ePKP	11 14.00	-3.8X
	0.7s	24.00nm			
GRS	126.52	59	iPKP	11 15.60	-2.1
			iPPP	16 03.20	
GRS	126.52	59	ePdiff	08 07.00	9.6X
KRV	126.63	58	iPKP	11 21.00	3.3X
			iPP	13 23.00	
WB2	127.86	210	iPKP	11 19.00	-1.6
			i	11 42.20	
			i	16 04.70	
			i	24 23.00	
WRA	127.87	210	PKPd	11 17.60	-3.0X
	0.7s	29.40nm			
LMG	128.49	232	ePKP	11 21.00	-1.1
PMG	128.84	231	ePKP	11 23.00	0.4
	Z 20s	44.30um			7.1Msz
BAK	129.32	58	iPKP	11 24.00	1.3
			iPP	13 36.00	
TEH	130.09	64	ePKP	11 24.00	-0.6
TIK	133.56	352	ePKP	11 20.00	-9.8X
	Z 26s	239.00um			7.8MszX
	N 27s	295.00um			
	E 25s	150.00um			
			e	11 26.00	
			epPKP	11 39.00	
			esPKP	11 42.00	
			ePP	13 55.00	
			eSKS	18 39.00	
			ePS	24 22.00	
			ePPS	26 00.00	
			eSSS	36 41.00	
TIK	133.56	352	PKP	11 26.00	-3.8X
MOM	133.64	238	ePKP	11 30.00	-1.7
SEY	134.03	334	ePKP	11 27.00	-4.0X
	Z 24s	203.00um			7.8MszX
	N 24s	1236.00um			
	E 24s	94.00um			
			ePP	13 59.50	
			eSS	31 47.50	

SVE	134.07	35	ePKP	11 16.00	-15.3X
			i	11 32.10	
			isPKP	11 50.20	
KAT	134.18	60	iPKPc	11 32.40	0.4
			esPKP	11 54.00	
			ePP	14 05.00	
			eSKS	18 41.00	
			eSP	24 08.00	
PET	135.03	320	ePKP	11 31.00	-2.1
			ePS	24 28.00	
			e	32 20.00	
PET	135.03	320	PKP	11 35.00	1.9
PET	135.03	320	ePdiff	08 37.00	2.4X
NRI	135.30	11	ePKP	11 15.00	-18.2X
			i	11 33.00	
			iPP	14 09.00	
NRI	135.30	11	PKP	11 33.00	-0.2
MTN	135.54	211	ePKP	11 25.00	-10.3X
MTN	135.54	211	ePKP	11 50.00	14.7X
VAN	135.61	62	ePKP	11 33.60	-1.2
	Z 24s	20.30um			6.8MszX
			esPKP	11 55.00	
			ePP	14 20.00	
ASH	135.81	62	ePKP	11 35.00	-0.2
	4.0s	2310.00nm			
	Z 24s	210.00um			7.8MszX
	N 20s	52.90um			
			epPKP	11 48.00	
			iPP	14 14.00	
			ePPP	17 15.00	
TZZ	135.88	229	ePKP	11 36.00	-0.1
MGD	136.16	331	ePKP	11 25.40	-9.7X
			e	11 32.00	
			ePP	14 14.00	
SKR	137.21	317	PKP	11 34.00	-3.4X
SKR	137.21	317	ePKP	11 38.00	0.6
	1.0s	220.00nm			
			epPKP	11 54.50	
			esPKP	11 55.60	
			ePP	14 24.80	
YAK	142.00	345	iPKPd	11 37.20	-8.5X
	0.9s	100.00nm			
SAM	142.44	59	iPKPc	11 39.00	-8.3X
	7.0s	*******nm			
			iPP	14 50.50	
			iPPP	18 09.00	
TAS	143.91	56	PKP	11 47.70	-2.0
DSH	143.96	60	iPKPc	11 46.20	-3.8X
	Z 27s	90.00um			7.4MszX
			ePP	14 58.00	
			eSS	33 38.00	
KUR	144.11	311	PKP	11 47.00	-2.8X
GUA	144.38	256	e(PKP)	11 47.50	-3.7X
	1.0s	736.00nm			
GUMO	144.44	256	e(PKP)	11 48.00	-3.3X
KUL	144.80	61	iPKPc	11 49.40	-2.0
			isPKP	12 09.50	
GAR	145.09	59	iPKP	11 50.00	-1.9
			iPP	15 10.00	
KOD	145.75	112	ePKP	11 54.00	0.0
NVS	145.81	27	PKP	11 52.80	0.4
KHO	146.26	62	iPKPc	11 53.80	-0.3
	6.0s	*******nm			
ANR	146.30	56	iPKPc	11 54.20	0.4
	2.0s	3100.00nm			
	Z 25s	230.00um			7.9MszX
	N 25s	330.00um			
	E 25s	330.00um			
			ePP	15 22.00	
YSS	146.76	317	iPKPc	11 55.00	0.8
	0.8s	120.00nm			
			eSSS	39 46.00	
MKS	146.98	199	iPKPd	11 56.50	0.9
SEM	147.34	35	iPKPc	11 54.90	-0.1
	2.2s	2470.00nm			
			esPKP	12 13.00	
FRU	147.35	51	PKP	11 56.00	0.6
GBA	147.42	107	PKP	11 55.00	-1.2
BOD	148.51	355	iPKPc	11 55.80	-0.9
	1.1s	1970.00nm			
NRN	148.76	53	PKP	11 57.00	-1.1
KSH	149.30	57	PKPc	12 00.00	1.3
MIY	149.93	304	ePKP	12 01.00	1.6
HYB	150.03	101	ePKP	12 00.00	-0.3
	1.0s	1120.00nm			
PRZ	150.09	50	ePKP	12 00.00	0.1
	1.2s	110.00nm			

04d 19h

		esPKP	12 20.00		
		ePPP	19 07.00		
CBI	150.81	279	ePKP	12 06.00	4.8X
TUP	151.07	347	ePKPc	12 00.90	0.3
	1.2s	1070.00nm			
NDI	151.42	78	ePKP	12 02.00	0.0
	0.8s	418.00nm			
BKB	151.45	196	ePKPc	12 16.30	13.8X
PPI	151.80	161	ePKP	12 02.40	-0.6
UER	152.41	21	iPKP	12 02.00	-0.7
	1.2s	1060.00nm			
NII	152.60	302	ePKP	12 06.00	2.6
MAT	153.60	299	(PKP)	12 04.00	-1.0
IRK	154.00	7	PKP	12 05.00	0.0
PSI	154.25	155	ePKPc	12 05.80	-0.6
	1.0s	38.60nm			
TSI	154.85	154	ePKPd	12 07.90	0.7
KGM	154.94	165	ePKPc	12 09.30	2.0
			e	16 09.00	
VLA	155.33	318	iPKPd	12 08.00	1.0
WMQ	155.35	40	iPKPc	12 07.00	-0.1
			e	12 36.00	
ZAK	155.71	10	iPKPc	12 07.60	0.3
	4.3s	3150.00nm			
			e	12 28.00	
			eSKS	19 03.60	
MDJ	155.72	323	PKPc	12 06.00	-1.5
			sPKP	12 21.00	
			PP	16 26.00	
			SKS	19 05.00	
IPM	156.75	158	ePKPd	12 09.40	-0.4
			e	12 53.20	
			e	13 39.10	
			e	14 52.10	
			e	17 08.00	
DMN	158.32	82	PKP	12 10.40	-1.3
	1.0s	94.00nm			
CN2	158.42	327	iPKPc	12 09.30	-1.6
			sPKP	12 24.00	
			e	12 46.00	
			PP	16 26.00	
			sPP	16 40.00	
			SS	36 25.00	
SHK	158.47	297	ePKPc	12 11.10	-0.2
KKN	158.48	81	PKP	12 10.60	-1.2
PKI	158.58	82	PKP	12 10.80	-1.2
	1.0s	100.00nm			
PLP	158.83	227	ePKPc	12 16.00	3.9X
	1.0s	145.00nm			
SNG	159.01	155	iPKPc	12 12.00	-0.4
SNY	160.80	326	iPKPc	12 12.50	-1.0
			pPKP	12 28.00	
			e	12 59.00	
			PP	16 40.00	
			SS	36 52.00	
NNT	163.41	145	ePKP	12 15.60	-1.3
LSA	163.56	75	PKPc	12 18.20	0.9
			e	13 11.20	
			PP	16 59.20	
OCP	163.93	225	ePKP	12 26.00	8.7X
DL2	163.96	323	iPKPc	12 16.50	-0.2
			sPKP	12 30.00	
			e	13 28.00	
			PP	17 17.00	
KHT	164.54	137	ePKP	12 22.80	4.9X
GTA	164.84	30	iPKPc	12 18.50	0.8
			PP	17 00.00	
			SKKS	23 39.00	
			SS	37 25.00	
BAG	165.55	228	iPKPc+	12 18.00	-1.0
CVP	165.56	235	ePKP	12 19.00	0.3
HHC	165.60	353	PKPc	12 19.50	1.2
			PP	17 02.50	
BTO	165.95	358	PKPc	12 19.00	0.4
			sPKP	12 34.00	
			e	13 20.00	
			PP	17 04.50	
			SS	37 36.00	
PCT	166.04	146	ePKP	12 20.70	1.6
	0.8s	20.70nm			
			e	17 11.70	
NST	166.16	139	iPKPd	12 19.00	-0.2
BDT	166.63	132	ePKP	12 19.00	-0.6
	1.1s	274.00nm			
CHG	167.65	126	ePKPc	12 20.50	0.2
	1.1s	69.60nm			
TIA	168.32	328	PKP	12 19.60	-0.

			sPKP	12 34.00	
			e	13 36.00	
			e	13 49.00	
			PP	17 25.00	
TIY	168.56	348	iPKPc	12 20.50	0.0
			sPKP	12 34.00	
			e	13 28.00	
			PP	17 18.00	
			SKS	19 08.00	
NJ2	170.10	306	PKPc	12 21.00	-0.4
			PP	17 31.50	
			SKS	19 25.50	
QZH	171.59	261	iPKPc	12 23.00	0.7
			pPKP	12 34.00	
			e	13 51.00	
			PKS	15 52.00	
			iPP	17 44.50	
			SKS	19 20.00	
XAN	172.50	3	iPKPc	12 23.50	1.0
			e	13 44.50	
			PP	17 37.00	
			SS	38 30.00	
CD2	173.37	47	iPKPc	12 24.00	1.0
			sPKP	12 41.00	
			e	13 55.00	
			ePP	17 48.50	
HKC	173.97	227	iPKP	12 25.00	1.7
WHN	174.10	314	PKPc	12 23.50	0.4
			PP	17 54.00	
GZH	175.06	227	iPKPc	12 25.00	1.4
GYA	177.52	91	PKPc	12 24.00	-0.2
			sPKP	12 40.00	
			e	14 10.00	
			PP	18 05.00	
			SKS	19 23.00	
			SKKS	24 55.00	
			SS	39 56.00	
	S.D. = 1.1		on 348 of 442 obs.		
	OCT 09, 1983 11h 25m 38.84± 0.38s				
	26.141 S ± 1.6km 70.521 W ± 2.3km				
	DEPTH = 6.5 ± 2.2 km				
	5.9mb (73 obs.) 6.3Msz (23 obs.)				
	NEAR COAST OF NORTHERN CHILE (122)				
	Felt (V) at Copiapo, (IV) at				
	Chanaral and (III) in the				
	Antofagasta area.				
ANT	2.43	2	iPc+	26 21.30	1.7
			i(S)	26 56.50	
TLL	4.02	184	iPd	26 41.60	-0.8
			i	26 42.90	
TPL	4.03	4	iP	26 59.20	16.8X
FSA	4.05	90	ePc	26 50.00	7.3X
SLA	4.76	74	iPc	27 00.10	7.2X
			(S)	27 56.80	
CEN	5.63	164	eP	27 08.00	2.8
CFA	5.80	160	ePc	27 10.00	2.5
			S	27 26.50	
YJA	6.05	50	ePc	27 16.20	4.8X
JACH	6.52	181	iP	27 16.70	-1.0
ROCH	6.82	183	iPd	27 20.20	-1.9
PEL	6.98	181	iP	27 22.50	-1.6
BACH	7.19	180	eP	27 26.00	-1.0
SAN	7.29	181	eP	27 25.70	-2.7
TCA	7.34	136	ePc	27 29.50	0.3
PCH	7.45	180	iPd	27 30.30	-0.5
TACH	7.50	183	iPc	27 28.90	-2.4
CHCH	7.77	181	eP	27 32.50	-2.6
LNV	7.83	185	iPd	27 31.60	-4.3X
ARE	9.67	354	iP	27 58.50	-3.3X
LPB	9.82	14	Pc+	28 05.00	1.0
			iS	30 15.00	
ZOBO	10.07	13	iPc	28 08.00	0.4
CON	10.87	191	eP	28 12.00	-5.9X
			i	28 38.50	
ITB1	14.66	88	iP	29 11.40	2.8
HUA	14.74	341	eP	29 14.10	3.9X
			iS	32 11.10	
ITB7	14.78	90	iP	29 11.70	1.5
ITB	14.80	88	P	29 13.90	3.5X
LM2	15.28	335	eP	29 18.60	1.8
			eS	33 39.00	
NNA	15.29	336	iP	29 18.00	1.1
	0.1s	2390.00nm		7.5mb X	
VAO	21.64	87	eP	30 31.80	-0.2
BMA	24.24	88	eP	30 58.50	1.0

			e	33 16.30	
PSO	27.96	345	iP	31 34.00	1.4
BOCO	30.73	353	P	31 58.50	1.0
BOG	30.77	353	iP	31 58.50	0.7
			eS	37 03.00	
CHN	31.31	350	iP	32 03.50	1.2
FUQ	31.58	354	iP	32 04.50	-0.3
SOB1	32.74	64	eP	32 14.30	-0.4
			e	32 28.60	
UAV	34.55	359	eP	32 30.50	0.0
SDV	34.82	360	eP	32 32.20	-0.6
	0.8s	60.00nm		5.5mb	
ITR	35.01	66	eP	32 33.70	-0.7
			e	32 47.90	
TOV	35.72	1	eP	32 39.50	-0.8
LGN	36.07	359	iP	33 04.00	20.8X
CAR	36.59	6	iPc	32 46.00	-1.8
	1.2s	344.00nm		6.0mb	
BIM	41.45	14	eP	33 26.75	-1.3
MVM	41.52	14	eP	33 27.10	-1.5
FDF	41.64	14	eP	33 27.40	-2.2
MDN	42.15	13	eP	33 30.00	-3.8X
MGG	42.75	13	eP	33 38.00	-0.7
PAG	42.79	13	eP	33 36.00	-3.1X
SEG	43.19	13	eP	33 38.00	-4.2X
BPA	43.75	12	eP	33 43.00	-3.8X
SJG	44.19	6	iPc	33 48.40	-2.0
	0.9s	185.00nm		5.9mb	
	Z 22s	23.70um		6.1Msz	
SOR	50.12	345	iP	34 36.00	-0.9
	0.8s	70.00nm		5.7mb	
			ipP	34 44.00	27kmX
			eS	41 42.00	
ACX	51.40	323	eP	34 47.40	0.7
IIT	52.38	326	eP	34 55.40	1.0
III	52.43	325	eP	34 55.50	0.7
IIP	52.96	326	eP	35 00.30	1.5
CRX	53.40	325	eP	35 03.50	1.5
MZX	60.11	322	eP	35 49.80	0.4
HKT	60.82	335	iP	35 53.60	-0.5
JSC	60.95	350	eP	35 53.10	-1.8
ATX	61.94	333	iP	36 00.60	-1.2
			S	44 21.00	
NSLM	62.32	337	iP	36 05.00	0.8
TKL	62.73	348	eP	36 05.10	-1.8
			epP	36 14.60	31kmX
JCT	62.89	332	iP	36 06.80	-1.3
	0.9s	265.00nm		6.4mb	
	Z 20s	5.32um		5.7Msz	
			iS	44 45.00	
PWLA	63.02	344	eP	36 06.00	-2.8
RSCP	63.04	346	ePc	36 07.10	-1.9
	0.9s	398.31nm		6.6mb	
			epP	36 17.30	33kmX
NVL	63.06	158	iPc	36 08.00	-0.7
	1.2s	480.00nm		6.6mb	
			ipP	36 15.00	23kmX
			isP	36 25.00	
			iPcP	36 41.00	
			iS	44 34.00	
			iSP	44 53.00	
			iScS	45 57.00	
BLA	63.70	351	eP	36 12.20	-1.1
SPA	64.01	180	iPd	36 13.90	-1.4
	1.2s	852.00nm		6.8mb	
	Z 21s	16.50um		6.2Msz	
NA12	64.16	354	eP	36 15.40	-0.8
CVL	64.22	353	eP	36 16.30	-0.3
OLY	64.43	341	eP	36 15.80	-2.3
BHO	64.47	338	iPc	36 17.00	-1.3
GRT	64.58	343	eP	36 17.50	-1.5
LST	64.91	343	eP	36 20.90	-0.2
ELC	65.50	344	ePc	36 22.90	-2.0
GBO	65.91	338	ePc	36 26.10	-1.5
MRG	66.02	352	iPd	36 27.20	-1.0
RLO	66.15	338	e(P)	36 27.30	-1.8
TUL	66.17	338	iPc+	36 28.10	-1.2
	1.4s	574.00nm		6.6mb	
	Z 22s	4.40um		5.5Msz	
	N 22s	1.02um			
	E 19s	1.03um			
			eS	45 15.50	
SIO	66.20	337	eP	36 28.40	-1.1
OCO	66.41	336	eP	36 28.80	-2.1
FVM	66.47	343	iPd	36 30.10	-1.0
GPD	66.91	357	eP	36 33.50	-0.4
			epP	36 43.80	33kmX

				esP	36 49.10	
DHN		68.98	354	eP	36 46.40	-0.5
DLA		69.41	351	P	36 47.55	-1.9
LDN		69.53	352	P	36 48.40	-1.8
ALO		69.63	329	ePc	36 50.80	-0.4
		1.0s	104.00nm			5.9mb
	Z	20s	15.40um			6.2Msz
				e	37 02.00	
ELF		69.70	352	P	36 49.50	-1.7
APH		69.73	357	eP	36 50.50	-0.9
BNH		70.39	359	eP	36 53.20	-2.2
RSNY		70.44	357	iPc	36 54.70	-1.0
PTN		70.49	357	eP	36 55.60	-0.3
EMM		70.59	2	eP	36 56.70	0.2
TBI		70.66	253	eP	37 00.00	2.4
		1.2s	100.00nm			5.8mb
SBA		71.02	191	iP	36 59.40	0.5
				eS	46 18.00	
MIM		71.05	1	eP	36 58.90	-0.4
OTT		71.35	356	ePc	37 00.50	-0.6
		1.0s	89.00nm			5.8mb
				pP	37 12.00	38kmX
KIC		71.44	73	iPc	37 01.80	-0.6
RUV		71.86	262	eP	37 06.00	1.1
		0.8s	25.00nm			5.4mb
VAH		72.06	262	eP	37 07.00	0.9
		0.8s	30.00nm			5.4mb
TPT		72.15	262	eP	37 08.00	1.4
		0.8s	20.00nm			5.3mb
PMO		72.39	262	eP	37 10.00	2.0
		0.8s	30.00nm			5.4mb
GLA		72.40	322	eP	37 08.10	0.3
				i	37 09.40	
				ipP	37 19.00	36kmX
TVO		72.52	258	eP	37 11.00	2.1
		0.8s	45.00nm			5.6mb
CBM		72.76	2	eP	37 05.30	-4.2X
PAE		72.85	258	eP	37 13.00	2.2
		0.8s	20.00nm			5.3mb
AFR		73.08	258	eP	37 14.00	1.9
		0.8s	30.00nm			5.4mb
GLD		73.10	333	iPd	37 12.20	0.2
		1.4s	270.00nm			6.2mb
GOL		73.12	333	iPc	37 12.00	-0.2
		1.0s	46.00nm			5.5mb
PV06		73.33	330	ePc	37 13.70	0.3
PV07		73.50	330	ePc	37 14.30	0.0
PV10		73.63	329	eP	37 15.20	0.0
MMU		74.54	328	eP	37 20.20	-0.3
				i	37 22.00	
				epP	37 32.50	42kmX
SDW		74.80	322	eP	37 21.70	-0.2
STJ		75.10	12	ePc	37 22.50	-0.6
		1.2s	390.00nm			6.3mb
MSU		75.22	327	eP	37 24.60	0.3
NOP		75.42	323	ePc	37 25.40	0.0
PRN		75.80	325	iPc	37 28.20	0.6
TUH		75.89	120	iPc	37 28.00	-0.2
		1.2s	100.00nm			5.8mb
CER		75.98	120	iPc	37 28.60	-0.1
		1.3s	300.00nm			6.2mb
LHC		76.10	347	ePc	37 27.40	-1.4
		0.9s	114.00nm			6.0mb
VPEM		76.20	322	ePc	37 30.40	0.5
RSSD		76.36	336	eP	37 30.90	0.2
WKTM		76.43	322	eP	37 31.90	0.8
SCCM		76.80	320	eP	37 34.50	1.4
DUG		76.84	328	eP	37 32.90	-0.5
				i	37 35.10	
BDW		77.44	332	iPc	37 36.80	0.1
		1.4s	97.70nm			5.7mb
SUR		77.53	120	iPc	37 38.20	0.6
		1.1s	106.00nm			5.9mb
	Z	22s	30.90um			6.6Msz
PHAM		77.57	320	eP	37 39.30	2.0
EUR		77.85	326	iP	37 39.50	0.5
		0.5s	43.20nm			5.8mb
BEI		77.88	330	eP	37 39.80	0.7
PRI		77.94	321	eP	37 40.20	0.8
FRI		78.00	322	eP	37 39.10	-0.5
MNA		78.20	324	eP	37 41.90	1.0
SAO		78.82	321	eP	37 44.30	0.1
TMI		78.89	331	eP	37 44.90	0.2
				i	37 56.00	
JAS		79.09	322	iPc	37 45.90	0.3
				eP'P'	04 44.00	
BMN		79.19	326	eP	37 47.30	1.0
ARN		79.28	321	eP	37 48.10	1.4
MHC		79.34	321	eP	37 48.00	0.9
RSON		79.35	345	ePc	37 45.60	-1.1
BKS		80.05	321	eP	37 52.30	1.5
		1.4s	169.00nm			5.8mb
	Z	20s	7.00um			6.0Msz
	N	20s	9.00um			
	E	20s	4.20um			
				eS	47 58.00	
				eSS	53 06.00	
LRM		81.12	332	ePc	37 56.70	0.1
MIN		81.43	323	eP	37 57.50	-0.7
GRM		81.57	123	iPd	37 58.50	-0.6
		1.0s	78.00nm			5.7mb
	Z	22s	10.70um			6.2Msz
				i	38 13.50	
RMT		81.71	322	eP	37 59.70	0.3
				e	38 00.60	
HVD		81.91	120	iPc	38 03.20	2.1
		1.4s	230.00nm			6.1mb
LGBM		82.45	323	eP	38 03.60	0.0
				i	38 04.50	
				epP	38 15.20	38kmX
FHC		83.05	322	eP	38 07.60	1.2
BLF		83.10	119	iPd	38 07.00	-0.3
				i	38 26.00	
SWZ		83.25	117	iPc	38 06.50	-1.5
		1.0s	220.00nm			6.3mb
VIR		84.08	118	iPd	38 11.50	-0.8
				i	38 41.00	
FFC		84.96	342	eP	38 15.00	-0.7
		1.3s	77.00nm			5.8mb
NEW		85.03	331	eP	38 15.30	-0.9
		1.2s	60.00nm			5.7mb
BPI		85.86	117	iPc	38 19.00	-2.3
LON		86.08	327	eP	38 20.60	-0.9
				i	38 22.10	
PRE		86.18	117	eP	38 22.00	-0.8
				i	38 51.00	
SLR		86.26	117	iPd	38 21.60	-1.6
		1.3s	126.00nm			5.9mb
	Z	18s	55.50um			7.0Msz
				i	38 50.00	
LIS		86.33	43	iPd	38 23.60	0.7
EVA		86.55	118	iPc	38 24.30	-0.3
BFW		86.58	327	eP	38 24.20	0.2
				e	38 25.30	
SFS		86.86	47	iPc	38 26.80	1.3
				iPP	42 38.00	
				iS	49 08.00	
				iPS	50 01.00	
				eSS	55 02.00	
PNT		86.91	330	eP	38 25.00	-0.5
		0.9s	46.00nm			5.7mb
GMW		87.11	328	eP	38 26.40	-0.1
				epP	38 37.70	36kmX
EDM		87.35	336	eP	38 21.50	-6.1X
		1.4s	511.00nm			6.6mb
MCW		87.93	328	eP	38 30.60	0.2
PTO		88.14	42	iP	38 31.80	0.2
				eS	49 18.00	
MAL		88.19	47	iPc	38 32.60	0.7
				iPP	42 12.00	
				iPPP	44 27.00	
				iS	49 20.00	
PGC		88.20	328	eP	38 31.60	0.0
BUL		89.09	112	iPc+	38 37.00	0.1
		1.3s	144.00nm			6.1mb
	Z	22s	40.00um			6.8Msz
	N	21s	19.40um			
	E	22s	22.20um			
				ipP	38 50.00	43kmX
				iPP	42 05.00	
				iS	49 24.00	
GNZ		89.14	227	P	38 39.40	2.8
				pP	38 47.00	24kmX
				e	39 38.00	
FRB		89.59	1	eP	38 37.00	-0.9
MNG		89.66	224	P	38 40.20	1.1
		1.0s	92.00nm			6.0mb
				pP	38 49.00	27kmX
WEL		89.72	223	P	38 40.00	0.7
	Z	19s	15.30um			6.4Msz
				pP	38 51.00	35kmX
				S	49 09.00	
				SKS	49 26.00	
				SS	55 40.00	
TCW		90.07	223	P	38 42.60	1.7
				pP	38 51.80	29kmX
TOL		90.21	45	iPc	38 42.50	1.0
				iPP	42 30.00	
				ePPP	44 17.00	
				eSKS	48 52.00	
				iS	49 34.00	
				iPS	51 04.00	
				eSS	55 10.00	
				eSSS	58 43.00	
BCAO		91.08	86	P	38 46.50	0.5
KRP		91.16	226	Pd	38 47.40	1.4
				e	38 57.00	
KRI		91.46	109	iPc	38 48.00	0.1
				i	39 39.00	
				iPP	42 30.00	
MSZ		91.64	217	P	38 48.00	-0.1
LGR		92.62	43	iPc	38 55.00	2.6
				ePP	42 38.50	
				eS	49 51.00	
MTD		93.14	110	iPc	38 56.00	0.4
				epP	39 10.00	47kmX
				iPP	42 38.00	
EBR		93.63	46	eP	38 58.00	0.9
				e	42 48.00	
				e	49 42.00	
				e	50 22.00	
VAL		93.91	33	iP	38 56.00	-2.1
				S	49 40.90	
EPF		94.69	44	eP	39 02.90	0.9
		1.4s	66.60nm			5.9mb
YKC		95.02	341	eP	39 02.50	-0.5
		1.0s	33.00nm			5.7mb
RSNT		95.05	341	eP	39 02.70	-0.4
YKA		95.07	341	eP	39 06.80	3.6X
MLS		95.12	44	iPc	39 05.20	1.3
GDH		95.91	6	ePd	39 06.00	-0.9
		1.5s	111.00nm			6.1mb
				iSKS	50 02.00	
				iS	50 35.00	
LFF		95.93	43	eP	39 07.90	0.3
		1.4s	125.00nm			6.2mb
LPO		96.07	43	eP	39 08.70	0.4
		1.4s	75.40nm			6.0mb
MFF		96.27	41	eP	39 09.10	0.0
		1.4s	118.00nm			6.2mb
LPF		96.51	39	eP	39 09.60	-0.5
		1.5s	117.00nm			6.2mb
RJF		96.59	43	eP	39 10.70	0.1
		1.4s	79.80nm			6.1mb
CAF		96.74	43	eP	39 11.60	0.3
		1.4s	42.90nm			5.8mb
GRR		96.80	39	eP	39 10.80	-0.6
		1.3s	61.10nm			6.0mb
LSF		97.08	42	eP	39 12.90	0.1
		1.5s	85.50nm			6.1mb
FLN		97.21	39	eP	39 12.90	-0.3
		1.4s	81.60nm			6.2mb
LDF		97.32	39	eP	39 13.70	-0.1
		1.3s	54.00nm			6.0mb
TCF		97.51	42	eP	39 14.60	-0.1
		1.5s	49.50nm			5.9mb
MZF		97.70	42	eP	39 15.70	0.2
		1.5s	51.60nm			6.0mb
SSB		98.44	44	ePc	39 19.10	0.2
AVF		98.44	42	eP	39 19.00	0.2
		1.4s	43.10nm			5.9mb
CDR		98.45	45	ePc	39 18.30	-0.7
SMF		98.67	42	eP	39 20.30	0.4
		1.4s	114.00nm			6.4mb
SSF		98.67	42	eP	39 19.60	-0.3
		1.5s	53.40nm			6.0mb
LRG		98.73	46	eP	39 21.30	1.1
		1.5s	207.00nm			6.6mb
LMR		98.77	46	eP	39 21.20	0.8
		1.5s	144.00nm			6.4mb
LBF		98.91	42	eP	39 20.70	-0.3
		1.5s	47.50nm			5.9mb
FRF		98.96	46	eP	39 22.20	0.9
		1.5s	175.00nm			6.5mb
LOR		98.98	42	eP	39 20.80	-0.5
		1.5s	51.30nm			6.0mb
EKA		99.32	32	Pc	39 22.10	-0.5
		1.4s	50.90nm			6.0mb
CVF		99.97	47	eP	39 26.40	0.4
		1.5s	63.00nm			5.9mb
ERC		100.59	53	ePdiff	39 32.50	3.6X

09d 11h

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DIX   100.59  44 ePdiff39 29.50   0.4 |       Z  20s     7.09um         6.2Msz | LEN   124.52  57 ePKP  44 41.00   0.2
DOU   100.75  39 Pdiff 39 29.00  -0.3 |                iSKS  50 45.00         |        8.0s  1400.00nm
                 SKS   50 27.00       | PMR   107.45 331 Pdiff 39 59.00   0.1 | ERE   124.95  58 ePKP  44 39.00  -2.6X
                 S     51 27.00       |       Z  19s     5.50um         6.1Msz |                eSKS  51 46.00
                 SP    52 57.00       | ZST   107.50  45 ePdiff40 00.00   0.6 |                ePS   56 39.00
HAU   100.81  42 ePdiff39 29.40  -0.3 | SRO   108.14  45 ePKP  44 27.00  17.9X | ISO   125.04 215 ePKP  44 41.00  -1.2
       1.4s   23.50nm         5.6mb  |       N  20s     2.10um                 | ASPA  125.14 208 ePKP  44 40.00  -2.4
MMK   100.92  44 ePdiff39 30.50   0.0 |       E  20s     4.96um                 | MTA   125.33  56 iPKPc 44 42.20   0.1
UCC   100.94  39 Pdiffc39 30.80   0.7 | COL   108.17 334 ePdiff40 03.00   1.0 |                ePS   56 41.40
                 e     52 39.00       | FBA   108.17 334 Pdiff 40 01.50  -0.5 | WBN   125.47 199 ePKP  44 41.00  -1.9
ROF   101.00  42 iPdiff39 30.80   0.3 | SKO   108.35  52 ePdiff40 03.00  -0.4 | GRO   126.11  54 iPKPc 44 44.00   0.4
BSF   101.00  42 ePdiff39 30.30  -0.4 |       Z  21s    17.50um         6.6Msz |                iPP   46 37.00
       1.4s   31.30nm         5.7mb  |       E  23s    20.30um                 |                ePPP  49 28.00
VG1   101.15  45 ePdiff39 32.50   1.3 |                i     44 29.00         | KER   126.23  65 e(PKP)44 48.00   3.6X
WLF   101.45  40 Pdiff 39 34.00   1.6 |                i     54 08.00         | GRS   126.28  59 iPKPc 44 42.60  -1.8
                 SKS   50 27.00       | ATH   108.72  56 ePdiff40 06.00   0.9 |        7.0s   600.00nm
                 S     51 33.00       | THE   109.02  53 iPdiff40 08.00   1.7 |       Z  20s     4.30um         6.1Msz
                 SP    52 57.00       | UZH   110.93  45 ePdiff40 13.00  -1.7 |       N  20s     6.10um
TMA   101.52  44 ePdiff39 32.50  -0.6 | UZH   110.93  45 ePKP  44 14.00  -0.3 |       E  20s     6.70um
CDF   101.55  42 ePdiff39 32.70  -0.4 |       Z  19s     6.00um         6.2Msz |                iPPP  49 27.00
       1.4s   31.30nm         5.7mb  |       N  19s     5.00um                 |                iSP   56 43.00
ENN   101.81  39 ePdiff39 32.50  -1.5 |       E  19s     5.00um                 | KRV   126.39  57 iPKP  44 44.00  -0.3
       1.2s   20.00nm         5.6mb  |                eSP   54 23.00         | MAK   127.37  55 iPKP  44 47.00   1.0
                 e     39 45.00       | WAR   111.13  41 e(Pdif40 21.00   5.6X |        8.0s  1000.00nm
ZUL   101.81  43 ePdiff39 34.00  -0.2 |       Z  24s    13.00um         6.4MszX |       Z  24s    10.40um         6.4MszX
LLS   101.92  44 ePdiff39 35.00   0.1 |                e     44 46.00         |       N  23s    11.70um
SLE   102.00  43 ePdiff39 34.50  -0.5 |                e     51 10.00         |       E  22s     4.60um
DBN   102.00  38 ePdiff39 35.00   0.2 |                e     52 16.00         |                iSP   56 50.00
      Z  20s    6.00um         6.1Msz |                e     54 24.00         | WRA   128.22 210 PKPd  44 46.70  -1.7
                 e     44 03.00       | CIN   111.91  58 iPKPd 44 14.50  -2.0 |        1.1s    79.30nm
                 eSKS  50 37.00       | LVV   112.34  44 ePdiff40 16.00  -4.9X | BAK   129.08  58 iPKP  44 52.00   2.6X
                 ePS   53 18.00       | LVV   112.34  44 ePKP  44 16.00  -1.0 |                ePP   47 00.00
VDL   102.05  44 ePdiff39 35.50   0.0 |       Z  22s    12.00um         6.4Msz | PMG   129.11 231 ePKP  44 39.00 -11.2X
FIR   102.06  47 ePdiff39 38.00   2.7X |       E  21s    12.00um                 | SHI   129.97  72 ePKP  44 51.00  -0.7
                 ePP   44 00.00       |                ePPS  56 00.00         | ARU   132.81  36 ePKPc 44 56.00   0.0
RMP   102.22  49 iPdiff39 36.00  -0.1 | KIS   114.83  48 ePdiff40 23.00  -9.0X |        1.6s   280.00nm
                 ePP   43 46.00       | KIS   114.83  48 iPKP  44 20.50  -1.4 |                ipPKP 45 04.00
                 eSKS  50 24.00       |                iPP   45 29.00         |                ePP   50 19.00
                 ePPS  53 12.00       |                iSP   55 01.00         |                eSP   57 34.00
SAX   102.30  43 ePdiff39 36.50  -0.2 | SOD   116.57  25 iPKP  44 24.50  -0.1 | TIK   133.19 352 ePKP  44 39.50 -16.7X
MNS   102.44  49 ePdiff39 38.00   1.0 | SIM   118.02  51 ePKP  44 27.00  -1.0 |        1.0s    10.00nm
OSS   102.56  44 ePdiff39 37.80   0.1 |                eSKS  51 31.00         |       Z  26s     6.40um         6.2MszX
POI   102.70  49 ePdiff39 39.50   1.4 |                eSPP  56 51.00         |       N  27s     6.90um
WTS   102.86  38 ePdiff39 39.00   0.4 |                eSS   02 03.00         |       E  25s     4.90um
       1.4s   24.00nm         5.7mb  | SIM   118.02  51 ePdiff40 49.00   2.7X |                e     44 55.00
                 e     39 50.50       | APA   119.16  25 ePdiff40 53.00   2.2 |                epPKP 45 05.00
PCA   102.90 331 (Pdiff39 39.10   0.3 |                eSP   55 36.00         |                ePPP  50 15.00
AQU   102.92  49 ePdiff39 41.00   1.7 |                eSS   02 13.00         |                eSKS  52 00.00
OGA   103.19  44 iPdiff39 41.20   0.7 | ANN   120.25  52 ePKP  44 31.50  -0.7 | SEY   133.71 334 ePKP  44 57.80   0.3
       1.5s   94.00nm         6.3mb  |        1.3s   160.00nm                 |        1.5s   410.00nm
CTI   103.25  45 ePdiff39 41.00   0.3 |                ePS   55 52 50         |                esPKP 45 09.80
                 ePP   43 04.50       | OBN   120.71  40 iPKPd 44 32.00  -0.8 |                ePP   47 26.00
SGO   103.53  51 ePdiff39 42.50   0.6 |        1.3s   230.00nm                 |                eSS   05 13.00
SCE   103.68  44 iPdiff39 42.80   0.1 |                isPKP 44 43.00         | SVE   133.74  35 iPKPc 44 58.00   0.3
       1.2s   33.00nm         6.0mb  |                eSKS  51 28.00         |        2.1s   230.00nm
GRF   104.44  42 ePdiff39 46.40   0.6 |                eSKS  51 42.00         |                ePPS  59 33.00
      Z  20s    5.30um         6.1Msz |                iPS   55 56 00         |                eSS   05 25.00
TRI   104.47  46 iPdiff39 40.00  -6.0X | ILT   120.78 335 ePKP  44 33.00   0.5 | KAT   133.96  60 iPKPc 44 59.50   0.8
                 iPP   44 00.00       |                eSS   02 36.00         |       Z  21s     5.30um         6.2Msz
                 eSKS  50 24.00       | MOS   121.31  39 iPKPd 44 34.00   0.1 |       N  21s     4.80um
                 eSKKS 50 45.00       |        1.5s   210.00nm                 |                ePPP  50 25.00
                 e     52 00.00       |       Z  20s    12.50um         6.6Msz |                iSP   57 44.00
                 eSP   53 12.00       |       E  19s     9.10um                 | PET   134.77 320 ePKP  44 46.00 -13.7X
                 eSS   58 50.00       |                epPKP 44 44.00         |                ePP   47 36.00
                 eSSS  04 18.00       |                ePS   56 00.00         |                eSP   57 48.00
RBL   104.63  45 ePdiff39 44 00  -2.8X | KHE   121.62   9 ePdiff41 07.00   5 4X |                ePPS  59 40.00
CEY   104.91  46 ePdiff39 49.00   1.0 | SOC   121.80  53 iPKP  44 35.00  -0.3 | NRI   134.92  10 ePKP  44 50.00  -9.6X
                 e     40 09.50       |                eSP   56 00.00         |        1.5s   120.00nm
MOX   105.05  41 e(Pdif39 49.00   0.5 | SOC   121.80  53 ePdiff41 10.00   6.8X |                i     44 59.00
       1.5s   22.00nm         5.9mb  | CTA   121.81 221 iPKPc 44 35.60  -0.4 |                eSS   05 23.00
                 ePP   44 04.00       |        1.2s    39.10nm                 | VAN   135.39  62 ePKP  44 51.00 -10.5X
                 eSKS  50 45.00       |                iPP   46 11.00         |       Z  22s     9.03um         6.5Msz
                 eS    52 00.00       |                iSKP  47 46.00         |                e     45 00.00
                 ePS   53 25.00       |                iSKS  51 28.00         | ASH   135.59  62 ePKP  44 53.00  -8.8X
LJU   105.10  46 ePdiff39 49.50   0.7 |                iPkkP 54 30.00         |        6.0s  1600.00nm
                 e     43 52.50       |                i(SS) 12 02 40         |                e     45 03.00
                 eS    50 21.50       |                i     17 08.00         |                ePP   47 46.00
LCI   105.32  52 ePdiff39 55.00   5.1X | MSL   123.37  62 ePKPd 44 38.50   0.0 |                eSP   57 55.00
BER   105.73  30 ePdiff39 58.00   6.8X |                e     46 17.50         | KHI   135.69  67 e(PKP)44 57.00  -5.4X
BRG   106.50  41 ePdiff39 56.50   1.6 |                e     48 58.00         | MGD   135.84 332 ePKP  44 45.00 -16.6X
       1.4s   12.00nm         5.7mb  | PYA   124.25  53 iPKPd 44 40.00  -0.1 |                e     45 00.00
                 e     43 20.00       |        1.5s   190.00nm                 |                eSS   05 35.00
                 eSKS  50 36.00       |       Z  26s    11.20um         6.4MszX | MTN   135.89 211 ePKP  44 48.00 -15.0X
                 ePKKP 55 27.00       |       N  26s     4 80um                 | MHI   136.48  64 ePKP  44 49.00 -14.8X
DAG   107.35  11 ePdiff39 58.00  -0.1 |       E  26s     6.40um                 |                e     45 04.00
                 iS    50 54.00       |                eSKS  51 49 00         |                e     47 44.00
COP   107.38  36 ePdiff40 01.00   2.4X |                iPS   56 31.00         |                eS    59 50.00
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09d 11h

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SKR   136.96 317 ePKP  45 01.40  -2.6X
                 ePPP  50 54.00
                 ePS   58 10.00
                 e     06 14.00
YAK   141.65 345 iPKPd 45 05.50  -6.7X
       1.4s   220.00nm
                 iPP   48 13.10
SAM   142.21  58 ePKP  45 06.00  -8.0X
       7.5s  1500.00nm
                 ePPS  00 55.00
TAS   143.66  55 iPKPc 45 11.50  -4.9X
       1.2s   400.00nm
     Z  24s    10.50um          6.5MszX
     N  24s     5.60um
     E  24s     7.00um
                 ePP   48 29.00
                 ePPS  01 10.00
DSH   143.73  60 iPKPc 45 13.10  -3.6X
     Z  22s    10.00um          6.5Msz
     N  24s     4.80um
     E  24s     9.50um
                 iPP   48 30.00
                 eSKS  52 14.00
KUR   143.89 312 iPKP  45 13.00  -3.6X
       1.0s   330.00nm
                 ePP   48 30.00
KUL   144.58  61 iPKPc 45 16.50  -1.6X
       2.0s  2400.00nm
                 ePP   48 35.80
                 ePPP  51 54.10
GAR   144.86  59 iPKPc 45 16.50  -2.1
       1.3s  1100.00nm
AAI   145.25 214 ePKPc 45 16.70  -3.1X
       1.2s  1390.00nm
NVS   145.45  27 ePKPc 45 18.20  -0.7
       1.5s  1360.00nm
KOD   145.85 112 iPKPc 45 21.80   0.6
       1.1s   848.00nm
                 ePP   48 44.00
KHO   146.04  61 iPKPc 45 20.70  -0.1
       9.0s  ********nm
     Z  24s     5.70um          6.3MszX
     N  24s     2.70um
     E  24s     6.30um
ANR   146.04  55 iPKP  45 21.50   1.1
       1.4s  1700.00nm
                 iPP   48 44.00
YSS   146.51 317 ePKPc 45 22.00   1.1
       1.0s   170.00nm
                 ePP   48 53.00
                 eSKS  52 28.00
SEM   147.00  35 iPKP  45 22.20   0.6
       1.5s   810.00nm
                 epPKP 45 32.40
                 ePP   48 54.50
FRU   147.08  51 iPKP  45 23.40   1.3
       1.4s  1760.00nm
                 esPKP 45 37.20
                 eSPP  01 32.00
                 e     08 42.00
LEM   147.18 177 ePKPc 45 22.50  -0.7
MKS   147.36 199 ePKPd 45 24.60   1.3
GBA   147.48 106 PKP   45 23.00  -0.4
ELT   147.85  26 iPKPc 45 22.30  -0.5
       2.0s   450.00nm
BOD   148.14 355 iPKPc 45 22.90  -0.3
       1.3s   300.00nm
NRN   148.50  53 ePKP  45 25.20   0.4
TLG   148.82  49 iPKP  45 24.80  -0.1
                 i     45 29.60
                 i     46 25.80
KSH   149.06  56 PKPc  45 25.00  -0.5
                 e     45 33.00
PRZ   149.81  49 ePKP  45 27.60   1.1
       1.4s  1600.00nm
                 ePP   49 06.00
HYB   150.06 101 iPKPc 45 27.20  -0.2
       1.2s   729.00nm
NDI   151.29  78 iPKPc 45 29.50   0.6
       1.4s   209.00nm
NDI   151.29  78 iPKP  45 35.00   6.1X
                 iPP   49 15.00
                 ePPP  52 46.00
MNI   151.34 214 ePKPc 45 30.90   1.5
       1.3s  1020.00nm
TSK   152.04 299 ePKP  45 35.70   5.9X
PPI   152.14 160 ePKP  45 31.00   0.4
KYS   152.21 296 ePKP  45 36.80   6.7X
DDR   152.81 298 ePKP  45 32.50   1.5
SRY   152.83 298 ePKP  45 30.70  -0.3
OYM   152.89 297 ePKP  45 36.50   5.4X
MAT   153.45 300 (PKP) 45 25.00  -6.8X
IRK   153.61   7 iPKP  45 31.00  -0.6
       1.5s   120.00nm
                 epPKP 45 39.00
                 e     45 53.00
                 ePP   49 24.00
                 ePPS  02 36.00
PSI   154.58 155 ePKPd 45 36.00   2.1
WMO   155.03  40 PKPc  45 33.50  -0.3
                 pPKP  45 43.00
                 e     46 00.00
                 PP    49 38.00
VLA   155.08 319 iPKPd 45 30.00  -3.7X
                 ePP   49 38.00
                 ePPP  53 02.00
                 eSSS  15 02.00
KGM   155.29 165 ePKPc 45 36.00   1.1
                 e     46 00.00
ZAK   155.33  10 iPKP  45 34.80   1.0
       9.0s  2620.00nm
                 e     46 00.00
                 ePP   49 36.00
                 ePPS  02 48.00
MDJ   155.44 324 ePKP  45 34.30   0.1
IPM   157.08 158 ePKPc 45 36.40  -0.9
       1.3s    69.40nm
                 e     46 05.30
CN2   158.12 328 iPKPc 45 36.50  -1.2
                 pPKP  45 47.00
                 e     46 12.00
                 PP    49 52.00
DMN   158.22  81 PKP   45 38.50  -0.1
SHK   158.34 298 ePKP  45 38.80   0.6
PKI   158.48  81 PKP   45 38.30  -0.7
       1.4s   280.00nm
PLP   159.12 227 ePKP  45 37.00  -2.6X
SNG   159.34 154 ePKP  45 39.00  -0.8
                 i     46 17.00
SNY   160.51 327 iPKPc 45 40.00  -0.3
                 e     46 22.00
                 PP    50 07.00
LSA   163.42  73 iPKPc 45 45.40   1.2
                 e     46 35.40
                 iPP   50 23.90
DL2   163.68 324 PKP   45 41.50  -2.0
                 e     46 36.00
                 PP    50 20.00
NNT   163.70 144 ePKP  45 42.50  -1.7
GTA   164.49  29 iPKP  45 45.50   1.0
                 i     46 40.20
                 PP    50 22.00
                 SKKS  57 12.00
KHT   164.79 136 ePKP  45 46.20   1.0
                 e     50 26.50
BJI   165.05 340 ePKP  45 45.00   0.2
                 pPKP  45 56.00
                 e     46 38.00
                 PKS   49 21.00
                 PP    50 25.00
                 (SKS) 52 46.00
                 e     54 04.00
                 PPP   54 24.00
                 SKKS  57 17.00
                 SKKKS 00 51.00
                 SS    10 41.00
HHC   165.23 354 PKP   45 46.80   1.7
                 e     46 44.00
                 PP    50 29.00
BTO   165.57 358 iPKPc 45 46.40   1.1
                 e     46 45.00
                 PP    50 30.00
BAG   165.84 229 ePKPc+45 45.00  -1.3
PCT   166.33 145 ePKP  45 48.00   1.6
       1.3s    24.90nm
                 e     46 49.50
                 e     50 36.70
NST   166.42 138 iPKPd 45 47.00   0.5
BDT   166.85 130 iPKPc 45 47.60   0.8
       1.3s   293.00nm
TIA   168.02 329 iPKPc 45 47.60   0.4
                 e     46 55.00
                 PKS   49 19.00
                 PP    50 44.00
TIY   168.19 348 iPKPc 45 48.00   0.6
                 e     46 54.00
                 ePP   50 34.00
SSE   168.59 298 PKPd+ 45 48.50   6.9
       1.5s   120.00nm
     Z  20s     7.80um
     N  22s     8.20um
     E  22s     2.70um
                 pPKP  46 00.00
                 PP    50 47.00
                 SKKS  57 32.00
                 PPS   04 36.00
                 SS    11 39.00
                 SSS   17 21.00
LZH   168.98  25 iPKP  45 49.50   1.5
       8.0s   325.00nm
     N  20s     2.10um
     E  24s    32.70um
                 pPKP  46 00.00
                 e     46 58.00
                 PP    50 47.00
                 e     54 46.00
                 SKKS  57 30.00
NJ2   169.91 308 PKPc  45 47.00  -1.4
                 e     47 04.00
                 PP    50 51.00
                 PPP   54 53.50
                 SKKS  57 36.00
QZH   171.68 264 iPKPc 45 51.00   1.6
                 PP    51 04.00
                 SKKS  57 46.00
XAN   172.11   3 iPKPc 45 50.00   0.5
                 e     47 08.50
                 iPP   51 02.20
                 PPP   55 09.00
CD2   173.08  45 iPKPc 45 51.00   1.1
                 e     47 18.00
                 PP    51 08.00
                 SKKS  57 56.00
KMI   173.83  98 PKPc+ 45 51.00   0.4
       7.0s     2.00nm
     E  23s    12.90um
                 ePP   51 12.00
                 iPP   51 15.00
                 ScP   58 07.00
                 iSKKS 58 10.00
                 SS    10 21.50
WHN   173.86 317 iPKPc 45 50.50   0.3
                 e     47 20.00
                 PP    51 12.00
                 SKKS  57 56.00
GZH   175.35 230 iPKPc 45 52.00   1.2
                 PP    51 20.00
                 SKKS  58 01.00
GYA   177.45  82 PKP   45 51.00  -0.3
                 e     47 37.00
                 PP    51 32.00
     S.D. = 1.1  on 331 of 390 obs.

   OCT  17, 1983  19h 36m 22.46± 0.08s
   37.602 N ± 2.0km   17.502 W ± 1.1km
   DEPTH =  16.0km  ( 17 depth phases)
   6.1mb (107 obs.)  6.4Msz ( 22 obs.)
 NORTH ATLANTIC OCEAN                (402)

LIS     6.68  78 ePnc  37 57.40  -4.8X
                 iSn   39 03.50
PTO     7.74  60 ePn   38 11.60  -5.6X
                 iSn   39 31.20
SFS     9.11  94 iPd   38 36.00  -0.1
                 i     38 50.00
                 i     39 44.00
                 iS    40 08.00
                 iSS   40 38.00
TEN     9.17 173 iPc   38 32.00  -5.0X
                 iS    40 04.00
VVD     9.77 182 P     38 41.40  -4.0X
                 S     40 19.40
MAL    10.49  91 iPc   38 51.00  -4.1X
                 iS    41 13.00
IFR    10.87 108 iPd   38 54.00  -6.6X
                 iSn   40 46.00
CRT    11.07  88 iPd   38 59.30  -3.9X
AFC    11.11  88 iPg   38 59.40  -4.4X
                 e     40 45.50
ALR    11.72  94 e(P)  39 08.00  -3.9X
                 e(S)  41 15.00
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17d 19h

ALM	12.02	89	eP	39	12.20	-3.7X				e	44	51.00				1.5s	350.00nm			5.8mb			
			iPP	41	16.70					e	45	00.00						i	41	59.00	29kmX		
LGR	12.47	62	iPd	39	18.60	-3.5X	VGI	21.23	61	eP	41	11.00	1.3					iS	46	20.00			
			iS	41	31.60		TMA	21.33	58	eP+	41	10.50	-0.4					i	46	29.00			
EBR	14.32	71	eP	39	35.00	-11.4X	ZUL	21.39	54	eP+	41	10.70	-0.7	SGO		25.56	73	iPc	41	53.00	1.0		
			(S)	42	05.00		GWF	21.43	50	iPc	41	10.90	-0.9	BRG		25.92	49	iPc	41	55.00	-0.3		
			m	42	15.00		DBN	21.52	40	iP+	41	12.50	-0.1			2.0s	935.00nm			6.1mb			
			eSS	42	21.00			Z 12s		123.00um			6.5MszX					i	41	59.10	15km		
EPF	14.64	63	eP	39	46.40	-4.3X				i	41	25.50	55kmX					eS	46	28.00			
VAL	15.22	17	eP	39	55.00	-3.1X				iS	45	15.00		MES		26.02	78	P	42	04.00	7.7X		
			S	41	55.00		SLE	21.55	54	eP+	41	12.00	-1.0	MSI		26.02	78	eP	41	58.00	1.7		
LFF	15.53	56	eP	39	57.10	-5.1X	LLS	21.61	56	eP+	41	13.50	-0.3	BRN		26.03	45	iPc	41	56.50	0.2		
	0.8s	810.00nm				6.0mb	BUH	21.69	51	iPc	41	13.60	-0.8	CZI		26.32	76	eP	42	00.10	1.0		
MFF	15.68	50	eP	39	59.30	-4.9X	VDL	21.82	57	eP+	41	15.70	-0.3	ACI		26.36	76	eP	41	59.90	0.4		
LPO	15.74	57	eP	40	00.80	-4.1X	SAX	21.94	55	eP+	41	17.00	-0.2	CSI		26.38	75	eP	42	00.90	1.2		
	0.7s	249.00nm				5.5mb	BNS	22.02	45	iPc	41	17.50	-0.1	ORI		26.47	74	iP	42	01.00	0.5		
LPF	15.92	44	eP	40	02.40	-4.8X		1.1s	2200.00nm				6.5mb	ROI		26.62	75	eP	42	03.50	1.6		
	1.0s	731.00nm				5.8mb				eS	45	25.80		REY		26.70	356	iP	42	05.70	3.4X		
RJF	16.18	56	eP	40	05.20	-5.4X	WTS	22.32	42	iPc	41	20.10	-0.5					i	42	19.40	56kmX		
	1.2s	820.00nm				5.7mb		1.0s	1010.00nm				6.2mb	VKA		26.75	56	ePc	42	01.60	-1.4		
GRR	16.23	43	eP	40	06.60	-4.5X				i	41	25.80	20km		Z	12s	76.30um				6.5MszX		
ABA	16.39	87	eP	40	13.00	-0.3				m	45	09.50						i	42	15.50	57kmX		
CAF	16.41	57	eP	40	08.70	-4.8X				i	45	25.90						iPP	42	36.70			
	0.8s	435.00nm				5.6mb	STU	22.32	51	iPc+	41	20.00	-0.7					iS	46	41.00			
ECP	16.54	25	iPc	40	13.30	-1.8		1.0s	1260.00nm				6.3mb					m	47	31.00			
	1.1s	1850.00nm				6.1mb	OSS	22.32	57	eP+	41	20.70	-0.2	BLY		26.92	64	eP	42	05.00	0.5		
			iS	42	59.60		SAL	22.35	60	iPd	41	20.50	-0.4	BRT		26.97	72	iPd	42	04.50	-0.5		
LSF	16.56	53	eP	40	10.40	-5.0X	TNS	22.42	47	iPc	41	21.70	0.0			0.8s	0.10nm				2.5mb X		
	0.9s	377.00nm				5.5mb				iS	45	34.10		BER		27.01	25	iP	42	07.40	2.2		
FLN	16.65	43	eP	40	12.10	-4.3X	FIR	22.59	65	eP	41	23.50	0.2	COP		27.06	38	ePd	42	06.00	0.4		
	1.1s	2060.00nm				6.2mb				eS	45	25.00				1.2s	250.00nm			5.8mb			
LDF	16.74	43	eP	40	13.50	-4.2X	WIT	22.68	40	iPc	41	25.00	1.0					iS	46	41.00			
TCF	17.01	53	eP	40	16.00	-5.1X				i	41	32.00	25km	ZST		27.26	56	iPc	42	06.50	-1.1		
	0.9s	321.00nm				5.5mb				e	45	30.50						m	42	33.00	124kmX		
MZF	17.22	54	eP	40	18.50	-5.2X	OGA	22.96	57	iPc	41	27.60	0.4	KSP		27.33	50	ePc	42	07.50	-0.8		
	0.8s	550.00nm				5.7mb	GAP	23.13	56	eP	41	29.20	0.5					eS	46	55.50			
DCN	17.27	21	eP	40	19.70	-4.5X	CTI	23.21	59	iPd	41	29.50	0.0	STJ		27.58	302	eP	42	11.00	0.5		
			eS	43	15.00			0.9s	680.00nm				6.2mb			2.2s	999.00nm			6.2mb			
DLE	17.43	22	eP	40	20.90	-5.4X	FUR	23.45	54	iPc	41	32.40	0.7	LCI		27.59	73	P	42	11.00	0.3		
	1.1s	2660.00nm				6.3mb		Z 14s		93.00um			6.4MszX	SRO		28.00	57	eP	42	12.00	-2.3		
			eS	43	17.00					eS	45	57.00			N	14s	83.10um						
DMU	17.86	21	eP	40	28.30	-3.3X	SCE	23.45	57	iPc	41	32.00	0.1		E	15s	30.40um						
	1.1s	2000.00nm				6.2mb	MNS	23.54	69	iPc	41	32.50	-0.1					m	45	16.00			
			eS	43	24.00			1.0s	200.00nm				5.6mb					e(S)	46	44.00			
AVF	17.93	53	eP	40	28.20	-4.3X	RMP	23.55	70	iPc	41	33.50	0.8	KONO		28.06	29	iP	42	15.00	0.3		
	0.8s	825.00nm				5.9mb				iPP	42	16.00		AKU		28.13	359	iP	42	17.50	2.2		
SSF	18.13	52	eP	40	31.00	-4.1X				iSn	45	52.00				1.1s	415.00nm			6.1mb			
	0.9s	799.00nm				5.9mb	RDP	23.56	70	iPd	41	33.50	0.6	TTG		28.42	69	eP	42	18.00	-0.1		
SMF	18.18	53	eP	40	31.60	-4.1X	ERC	23.73	80	iPd	41	34.50	0.0	BUD		28.43	58	ePc	42	16.00	-2.2		
	0.9s	714.00nm				5.8mb	POI	23.74	68	iPc	41	35.50	1.0			1.6s	200.00nm			5.6mb			
SSB	18.18	58	iP	40	34.80	-1.0	GRFO	23.88	50	iPc	41	36.00	0.1	PSZ		29.07	57	ePc	42	22.00	-2.1		
LBF	18.40	53	eP	40	34.20	-4.2X	GRF	23.88	50	iPc	41	36.10	0.2	KRA		29.42	53	iPc	42	26.30	-0.8		
	1.1s	998.00nm				5.9mb		Z 19s		37.00um			5.9Msz			1.3s	387.00nm			6.0mb			
LOR	18.44	52	eP	40	34.90	-3.9A				e	41	42.00	21km		N	18s	76.80um						
	1.1s	1130.00nm				6.0mb				eS	45	49.30			E	18s	84.10um						
CDR	18.64	64	iPc	40	39.60	-1.8	AQU	24.08	69	iPc	41	38.70	0.8					e	42	30.30	14km		
LRG	19.03	65	eP	40	44.10	-1.9	BHG	24.38	56	eP	41	40.40	-0.4					e	42	36.30			
	0.9s	759.00nm				5.9mb	MOX	24.45	48	iPc+	41	42.00	0.6					i	43	13.00			
LMR	19.12	65	eP	40	45.40	-1.7		Z 14s		81.00um			6.4MszX					eS	47	18.00			
	1.1s	340.00nm				5.5mb		N 13s		95.50um				SPC		29.47	55	eP	42	27.40	-0.4		
FRF	19.25	64	eP	40	46.60	-2.2				iS	45	45.00						i	42	31.20	13km		
	0.9s	506.00nm				5.8mb	HOF	24.49	49	iPc	41	42.20	0.4	NB2		29.57	28	P	42	27.60	-0.8		
DOU	20.16	45	Pc+	40	57.40	-1.2				eS	46	01.00				1.2s	318.00nm			6.0mb			
			S	44	24.00		KBA	24.55	57	iPc	41	42.10	-0.5	JOS		29.57	56	iPc	42	27.50	-0.9		
			m	45	59.00			0.8s	267.00nm				5.9mb	OHR		29.66	71	iP	42	29.00	-0.4		
EKA	20.23	24	Pd	40	59.50	0.2				i	41	43.30	4kmX					i	42	32.40	12km		
	1.2s	1400.00nm				6.2mb				i	41	49.30						i	47	20.00			
HAU	20.28	52	eP	40	58.20	-1.7	RBL	24.59	59	P	41	42.50	-0.3	HFS		30.00	31	eP	42	31.80	-0.4		
	1.0s	469.00nm				5.8mb	TRI	24.61	61	iP	41	44.00	1.1	SKO		30.06	69	iPd	42	32.50	-0.4		
DIX	20.34	58	eP+	41	00.20	-0.7	HAM	24.70	41	iPc	41	45.40	1.7					i	42	35.50	10km		
UCC	20.39	43	Pc+	40	59.60	-1.4	WET	24.75	53	iPc	41	43.70	-0.6					iS	47	18.00			
			S	44	33.20					eS	46	09.00						iSS	48	30.00			
BSF	20.49	52	eP	41	00.80	-1.5	GIB	24.85	79	eP	41	46.00	0.5	WAR		30.55	49	eP+	42	37.00	0.0		
ROF	20.51	53	iPc	41	01.40	-0.9	DUI	24.87	71	iP	41	47.50	2.1					eS	47	40.00			
ORO	20.61	59	iPd	41	04.00	0.5	CEY	25.07	61	eP	41	47.40	0.0					e	48	18.00			
BAF	20.62	52	iPc	41	02.40	-1.2	KHC	25.18	53	iPc	41	48.50	0.0	GRG		30.88	71	ePc	42	39.60	-0.6		
MMK	20.70	58	eP+	41	04.00	-0.6		1.0s	193.00nm				5.7mb	CLO		30.91	63	ePd	42	41.00	0.6		
CAF	20.74	68	eP	41	02.40	-2.4		Z 14s		34.30um			6.0MszX	VAY		30.97	70	iP	42	40.30	-0.6		
	1.2s	738.00nm				5.9mb		N 14s		43.00um				DEV		30.99	62	ePd	42	40.00	-1.0		
WLF	20.84	47	P+	41	06.00	0.3		E 17s		49.60um				LIT		31.07	73	eP	42	41.80	0.0		
			S	44	54.00					m	42	09.00	93kmX	THE		31.35	72	eP	42	46.80	2.6		
ECH	20.86	52	iPc	41	04.80	-1.2				e	43	54.50						iPP	43	59.20			
CDF	21.00	51	eP	41	06.20	-1.3	LJU	25.18	60	eP	41	48.40	-0.1					iS	47	46.00			
	1.1s	908.00nm				6.1mb				i	41	52.00	13km	CJR		31.49	68	eP	42	44.90	-0.6		
ENN	21.23	44	iPc	41	08.20	-1.4				eS	46	13.00		UPP		31.53	34	iPd	42	45.10	-0.5		
	1.0s	788.00nm				6.1mb	KMR	25.28	55	iP+	41	49.00	-0.3			1.0s	600.00nm			6.4mb			
			i	41	18.10	38kmX	CLL	25.51	48	iPc	41	50.80	-0.6					iS	47	56.10			

17d 19h

SOH	31.62	71	ePd	42	47.00	0.3		Z	18s	130.00um		6.8Msz	KRV	48.64	65	iP	45	08.00	0.6
SRS	31.76	71	ePd	42	48.20	0.3		N	18s	29.00um						iS	52	10.00	
PAIG	32.00	73	ePd	42	49.50	-0.4		E	18s	71.00um						eScS	54	57.00	
COZ	32.00	63	ePd	42	50.00	-0.2				iPP	45	49.00	MAK	48.72	62	iP	45	09.90	2.0
OUR	32.16	72	ePd	42	51.50	0.1				iS	50	19.00		2.0s	400.00nm				6.1mb
ATH	32.39	76	eP	42	54.90	1.5				eSS	53	18.00		Z	17s	32.40um			6.4MszX
Z	16s	38.60um				6.2MszX	ANN	41.17	62	iPc	44	08.00	0.6	E	14s	18.60um			
		eS	48	06.40				4.0s	••••••nm			7.0mb X				iS	52	10.70	
		eSS	50	00.80				Z	15s	4.80um		5.5MszX	GRS	49.01	67	iPd	45	10.80	0.4
MLR	33.12	62	ePd	43	00.00	0.1		N	17s	37.00um				2.0s	1080.00nm				6.5mb
KIC	33.20	156	iP	42	59.60	-1.0		E	14s	44.50um						iPP	47	10.40	
BUC1	33.24	64	iP	43	02.00	1.3				ePP	45	50.00				iS	52	10.00	
ISR	33.56	63	ePd	43	03.00	-0.6				iS	50	21.50				iSPP	52	21.00	
EZN	34.02	72	iP	43	07.60	0.1	MNT	41.99	299	iPc	44	13.90	-0.2			esS	52	31.20	
IAS	34.21	59	eP	43	08.00	-1.1		2.4s	1620.00nm			6.3mb				eSS	55	40.40	
BIR	34.27	61	eP	43	09.00	-0.7	RSNY	42.79	298	eP	44	20.50	-0.3			iSSS	56	50.00	
TLB	34.65	64	ePc	43	11.00	-1.9		2.2s	890.00nm			6.1mb	BLA	49.11	290	eP	45	11.90	0.8
CFR	34.70	63	eP	43	12.00	-1.3	APH	42.91	297	eP	44	23.40	1.6	NAV	49.36	290	eP	45	16.30	3.3X
NUR	34.98	35	iP	43	15.00	-0.5	PTN	43.10	298	eP	44	23.60	0.3	TAB	49.49	69	eP	45	14.00	-0.1
	0.9s	135.00nm				5.8mb	KBS	43.12	8	iP+	44	26.90	3.9X			e	45	17.00	10km
Z	19s	64.00um				6.4Msz	SOC	43.12	63	ePc	44	23.00	-0.5	ITR	50.10	207	eP	45	18.50	-0.3
		i	43	19.60	16km			2.0s	2200.00nm			6.6mb	KHE	50.81	12	iPd	45	28.00	4.5X
		ePP	44	22.00				Z	15s	14.00um		6.0MszX		2.0s	1240.00nm				6.5mb
		eS	48	42.00				N	16s	15.00um						isP	45	46.00	
IZM	35.02	75	iP	43	17.90	1.6		E	17s	19.00um						iPcP	46	36.00	
EDC	35.08	71	iP	43	17.20	0.5				ePP	46	10.00				iPP	47	20.00	
CTT	35.37	70	eP	43	20.10	1.0				ePPP	46	46.00				iPPP	48	20.00	
IST	35.81	70	iPc	43	22.50	-0.3				eS	50	50.00				iS	52	42.00	
ISK	35.85	70	iP	43	23.60	0.4				eScS	54	12.50	JSC	50.84	287	eP	45	25.60	1.3
YER	36.11	76	iP	43	25.50	0.0	GMTN	43.37	293	eP	44	26.20	0.7	BAK	51.30	65	ePc	45	32.00	4.4X
YLV	36.17	70	iP	43	26.10	0.1	OTT	43.45	299	eP	44	29.00	2.9		4.0s	••••••nm				7.2mb X
HRT	36.35	70	iP	43	27.60	0.2		1.0s	94.00nm			5.5mb		N	16s	16.80um			
SUF	36.48	32	iP	43	27.60	-0.6	GPD	43.54	293	e(P)	44	26.00	-0.9	E	16s	28.10um			
	0.8s	146.00nm				5.9mb	BPA	43.92	255	eP	44	29.50	-0.8			iS	52	50.00	
GPA	36.93	71	iP	43	32.50	0.2	SEG	44.04	254	eP	44	29.00	-2.2	SOB1	51.46	210	eP	45	27.50	-1.6
ALT	37.04	73	iPd	43	34.80	1.4	MGG	44.19	253	eP	44	32.00	-0.4			e	45	33.10	19km
GDH	37.19	340	iPc	43	36.00	1.9	PAG	44.40	253	eP	44	31.50	-2.7			e	45	44.60	
	1.2s	891.00nm				6.4mb	MDN	44.62	252	eP	44	36.00	0.1	KER	51.46	73	eP	45	32.00	2.8X
		iS	49	17.00			FDF	44.80	251	ePc	44	37.40	0.0	PRM	51.76	287	eP	45	31.50	0.2
SCH	37.31	314	iPc	43	35.00	-0.3	PYA	45.38	62	eP	44	42.00	0.3	LHC	51.78	306	iPc	45	21.00	-10.2X
	1.3s	381.00nm				6.0mb		2.0s	2970.00nm			6.9mb			1.9s	1300.00nm				
ELL	37.47	76	iP	43	37.30	0.3		Z	16s	23.00um		6.2MszX	CAR	51.82	252	iP	45	31.30	-0.7
TRO	37.55	20	iP	43	37.70	0.6		N	16s	24.50um				0.7s	35.60nm				5.4mb
KJF	37.71	31	iP	43	38.50	0.0		E	16s	19.00um			FCC	52.08	320	iP	45	36.00	2.7
	1.1s	406.00nm				6.1mb				ePcP	46	18.00	TKL	52.20	289	eP	45	34.50	-0.1
		ePP	45	04.00						ePPP	47	15.00	SVE	53.33	42	iPc	45	42.40	-0.3
		eS	49	16.00						iS	51	23.00		2.7s	2620.00nm				6.7mb
		eSS	51	36.00			BKR	46.29	65	iPd	44	50.00	0.9	Z	19s	47.50um			6.8Msz
BCK	37.80	75	iP	43	40.60	0.9		4.0s	8700.00nm			7.1mb X		N	19s	32.00um			
CBM	38.02	301	eP	43	40.00	-1.3				isP	45	03.60		E	19s	29.00um			
SOD	38.66	26	iP	43	46.10	-0.4				iPP	46	35.60				ePcP	46	51.50	
MIM	38.83	298	eP	43	48.00	-0.2				iSP	51	40.60				ePP	47	44.40	
SIM	38.92	62	iPc	43	48.00	-1.0	BCAO	46.61	126	eP	44	49.00	-2.7			eS	53	11.00	
	4.0s	••••••nm				6.9mb X	BNC	46.61	126	iPd	44	50.50	-1.2			eSS	56	44.00	
		ePP	45	28.00				1.0s	225.00nm			6.1mb	RSCP	53.58	296	ePc	45	44.60	-0.2
		iS	49	46.00			SJG	46.62	259	iPd	44	51.40	-0.4	RSON	53.84	310	eP	45	45.60	-0.9
[illegible]	39.27	360	iPd	43	52.50	1.1		0.9s	101.00nm			5.8mb	TEH	54.12	69	eP	45	50.00	1.1
	0.5s	35.20nm				5.3mb	LEN	46.81	66	iPd	44	57.00	3.8X	TOV	54.45	253	eP	45	52.50	1.0
		iS	49	52.00				4.0s	7200.00nm			7.1mb X	ELC	55.59	293	eP	45	58.20	-1.2
KEV	39.94	22	iP	43	57.00	0.0	N	18s	14.00um				SDV	55.66	253	eP	46	00.00	-0.4
	0.7s	58.70nm				5.4mb				eS	51	45.00		0.6s	33.30nm				5.5mb
Z	16s	62.70um				6.6MszX	NA12	46.95	290	eP	44	53.50	-0.7	PWLA	55.68	290	eP	45	59.50	-0.7
		i	44	01.20	14km		MTA	47.22	65	iP	44	56.40	0.2	FVM	56.18	295	eP	46	02.10	-1.6
		ePP	45	24.00						eSPP	51	55.80			1.6s	421.00nm			6.2mb
		eS	50	00.00			CVL	47.39	290	eP	44	56.80	-0.8	KAT	56.29	64	eP	46	05.00	0.5
FRB	39.98	327	iP	43	57.30	-0.1	GRO	47.39	62	iPc	44	59.40	1.8		4.0s	••••••nm				7.2mb X
OBN	40.11	46	iPc	43	58.10	-0.5		1.0s	700.00nm			6.7mb		Z	14s	5.20um				5.8MszX
	1.4s	130.00nm				5.4mb		Z	10s	37.00um		6.6MszX		N	14s	8.40um			
Z	14s	94.50um				6.8MszX		N	10s	29.00um				E	14s	8.20um			
N	14s	92.40um						E	10s	65.00um						eS	53	57.00	
E	14s	21.00um								iPP	46	51.00	MBC	56.57	344	eP	46	05.00	-1.1
		iPP	45	38.00						iPPP	47	30.00				pP	54	01.00	
		iS	49	58.00						iSP	51	55.00	FFC	57.37	317	eP	46	11.00	-1.0
BNH	40.48	297	eP	44	02.00	0.1	ALE	47.44	353	eP	44	56.80	-0.7		0.6s	25.00nm				5.4mb
MOS	40.72	45	iPc	44	04.00	0.4		0.8s	106.00nm			6.0mb	POW	57.49	293	eP	46	10.90	-2.1
	2.0s	6200.00nm				7.0mb	ERE	47.46	67	iPd	44	58.00	-0.3	SHI	57.65	76	eP	46	14.00	-0.5
Z	14s	58.30um				6.6MszX	TRN	47.62	247	eP	45	00.00	0.4	AAE	57.97	104	eP	46	17.00	0.0
N	14s	29.40um						1.2s	288.00nm			6.2mb	VAN	58.12	64	eP	46	16.40	-1.0
E	14s	40.80um					MSL	47.70	72	ePd	45	00.50	0.4			eS	54	18.00	
		iPP	45	40.00						i	45	04.00	12km			ePS	54	30.00	
		ePcP	46	06.00						ePcP	46	29.00	ASH	58.29	64	eP	46	19.00	0.3
		eS	50	14.00						i	46	58.50				eS	54	24.00	
		eSS	52	58.00						iS	06	56.00	ARO	59.62	99	ePd	46	28.00	-0.2
HLW	40.97	86	iP+	44	08.00	2.0	LDN	47.83	298	P	45	01.70	0.7	MHI	59.83	66	iPd	46	29.80	0.3
		iS	51	38.00			ELF	47.88	298	P	45	02.20	0.8			e	50	20.00	
KVT	41.02	68	iP	44	06.60	0.2	MRG	47.96	293	iPc	45	05.00	2.9			eS	54	44.00	
APA	41.09	27	iPd	44	07.40	0.9	DLA	48.15	297	P	45	03.00	-0.6	KHI	60.18	68	eP	46	30.20	-1.8

17d 19h

BAO	60.22	214	P	46 21.00	-11.3X
RLO	60.28	295	iPc	46 30.30	-2.1
YKC	60.44	328	eP	46 31.00	-2.2
	0.9s	70.00nm			5.8mb
NRI	60.48	23	iPc	46 34.00	0.6
	2.5s	1500.00nm			6.7mb
	Z 20s	30.00um			6.4Msz
	N 17s	31.00um			
	E 20s	29.00um			
		ePcP	47 19.00		
		ePPP	50 14.00		
		eS	54 51.00		
		eScS	56 19.00		
		eSS	58 44.00		
RSNT	60.49	328	eP	46 32.60	-0.9
		i		46 36.40	12km
YKA	60.49	328	eP	46 34.00	0.5
GBO	60.53	294	e(P)	46 33.10	-1.0
TUL	60.95	295	iPc-	46 35.20	-1.7
	1.5s	655.00nm			6.5mb
	Z 22s	14.70um			6.1Msz
BHO	60.97	293	iPc	46 35.70	-1.4
BOG	60.99	252	iP	46 36.00	-1.9
		iS		54 41.50	
CHN	61.95	253	iP	46 42.50	-1.7
NSLM	62.17	290	eP	46 45.00	-0.3
HAI	63.26	115	eP	46 55.00	2.0
	1.0s	110.00nm			6.0mb
SAM	63.57	59	eP	46 54.00	-0.5
	2.5s	2000.00nm			6.8mb
	Z 14s	14.90um			6.3MszX
	E 13s	15.30um			
		ePP	49 15.00		
		ePPP	50 45.50		
		eS	55 28.00		
		eScS	56 41.90		
HKT	63.82	289	eP	46 55.00	-1.1
EDM	64.10	318	iPc	46 57.40	-0.4
INK	64.25	338	eP	46 57.00	-1.5
	1.3s	167.00nm			6.0mb
TAS	64.34	57	eP	46 59.80	0.3
	2.8s	6000.00nm			7.3mb X
	Z 16s	24.00um			6.5MszX
	N 13s	16.90um			
	E 14s	8.00um			
		ePP	49 18.00		
		ePPP	50 56.00		
		eS	55 37.80		
		ePPS	56 07.00		
BMA	65.01	207	eP	47 03.30	-0.6
		e		47 10.30	22km
ATX	65.16	290	eP	47 06.00	1.1
		eS		55 55.00	
DSH	65.32	59	iPc	47 06.00	0.1
	5.0s	7000.00nm			7.1mb X
	Z 18s	16.00um			6.3Msz
		eS	55 46.50		
PSO	65.69	252	iP	47 13.50	4.5X
GLD	65.71	302	eP	47 08.10	-0.5
	2.4s	2400.00nm			6.9mb
	Z 19s	31.50um			6.5Msz
NVS	65.79	38	eP	47 08.10	-0.5
	2.0s	1700.00nm			6.9mb
		iSP	56 02.80		
GOL	65.84	302	eP	47 08.60	-0.9
	1.2s	50.80nm			5.6mb
	Z 19s	28.80um			6.5Msz
GAR	66.15	58	iP	47 10.00	-1.3
	7.0s	3000.00nm			6.6mb X
		iS	56 02.00		
KUL	66.31	60	eP	47 11.90	-0.4
	3.1s	4600.00nm			7.1mb X
		iPcP	47 42.30		
		ePP	49 39.40		
		eS	55 47.20		
VAO	66.35	210	eP	47 12.40	-0.2
JCT	66.51	291	iP	47 12.60	-1.1
	1.0s	215.00nm			6.3mb
SEM	66.52	44	iPc	47 13.00	-0.4
	2.8s	3480.00nm			7.0mb
		ePcP	47 41.90		
		ePP	49 39.50		
		ePPP	51 19.50		
		eS	56 03.60		
		ePPS	56 36.70		
ANR	66.64	56	ePc	47 14.40	0.1
	2.4s	3000.00nm			7.0mb
	Z 12s	13.30um			6.4MszX
	N 12s	17.00um			
	E 12s	13.00um			
		iPP	49 45.60		
		eS	56 07.70		
BDW	67.04	307	eP	47 15.50	-1.6
	0.7s	109.00nm			6.1mb
		e		47 33.90	69kmX
FRU	67.05	53	eP	47 13.80	-3.1X
	2.0s	2500.00nm			7.0mb
	Z 18s	30.00um			6.6Msz
	N 19s	35.50um			
	E 19s	31.00um			
		iPcP	47 44.00		
		ePP	49 45.00		
		eS	56 06.00		
		eSS	00 28.00		
LRM	67.27	311	eP	47 17.90	-0.6
		e		49 38.70	741kmX
IMW	67.33	309	eP	47 18.40	-0.6
KHO	67.74	59	ePc	47 21.20	-0.4
	5.6s	4000.00nm			6.8mb X
	Z 16s	10.00um			6.1MszX
	N 16s	2.50um			
	E 16s	15.80um			
		ePP	49 50.00		
		ePS	56 42.00		
		eSS	00 30.00		
ELT	68.16	39	iPc	47 21.90	-1.7
	2.2s	1340.00nm			6.7mb
	N 16s	7.40um			
	E 16s	32.00um			
		iS	56 23.00		
TMI	68.25	308	eP	47 24.30	-0.4
AAA	68.29	52	iP	47 25.90	1.2
	3.8s	6.80nm			4.2mb X
	Z 16s	21.50um			6.5MszX
	N 16s	19.50um			
	E 16s	18.50um			
		iPP	49 59.90		
TIK	68.49	11	ePc	47 25.00	-0.4
	3.0s	1900.00nm			6.7mb
	Z 18s	11.00um			6.1Msz
	N 19s	9.00um			
	E 16s	31.80um			
		ePcP	47 50.00		
		ePP	49 58.00		
		eS	56 27.00		
		eSP	56 42.00		
		ePPS	57 10.00		
TLG	68.56	51	eP	47 26.10	-0.3
	2.7s	1030.00nm			6.5mb
	Z 16s	16.00um			6.3MszX
	N 15s	14.70um			
	E 15s	16.00um			
		iPP	49 58.00		
		iS	56 26.00		
NRN	68.65	54	eP	47 27.60	0.3
NEW	68.69	315	eP	47 26.50	-0.6
BEI	68.79	307	eP	47 27.30	-0.7
ALQ	69.00	298	eP	47 28.90	-0.6
	2.0s	735.00nm			6.5mb
	Z 18s	17.20um			6.3Msz
PNT	69.49	317	eP	47 31.00	-1.0
	1.2s	131.00nm			6.0mb
PRZ	69.61	52	eP	47 35.00	2.0
	2.2s	1500.00nm			6.7mb
	N 16s	38.00um			
	E 16s	16.00um			
		ePP	50 11.00		
		ePPP	51 52.00		
		eS	56 40.00		
KSH	69.68	55	eP	47 36.00	2.6
		ePP	50 07.00		
		SS	01 10.00		
KRI	69.95	132	iPd	47 33.00	-2.2
		ipP	48 28.00	235kmX	
DUG	70.47	306	eP	47 37.50	-0.8
MMU	70.56	304	eP	47 38.90	-0.1
COL	70.70	340	eP	47 39.00	-0.1
	Z 22s	13.70um			6.2Msz
		eS	56 55.00		
FBA	70.70	340	eP	47 39.50	0.4
	2.1s	539.00nm			6.3mb
RMU	70.96	302	eP	47 41.10	-0.2
ITB1	70.97	215	eP	47 41.00	-0.1
MSU	70.97	304	eP	47 41.80	0.3
ITB	71.01	215	e(P)	47 40.40	-1.0
MTD	71.10	130	iPd	47 41.00	-1.1
		ipP	48 39.00	248kmX	
PNO	71.10	313	eP	47 41.00	-0.8
IMA	71.28	343	eP	47 43.80	1.1
VHO	71.29	278	iP	47 47.00	3.4X
GCA	71.43	303	eP	47 44.40	0.3
ZOBO	71.65	231	iP	47 44.70	-1.4
LPB	71.83	231	P	47 47.00	0.0
	1.0s	80.00nm			5.7mb
	Z 22s	28.10um			6.5Msz
		S	56 32.00		
TET	71.84	128	eP	47 47.00	0.5
	0.9s	0.10nm			2.9mb X
		e		50 25.00	
IIC	71.85	281	eP	47 49.40	2.3
PCA	71.91	334	eP	47 49.10	2.6
PGC	71.94	318	eP	47 45.20	-1.5
BUL	71.98	135	iPd	47 46.00	-1.5
		ipP	48 43.00	243kmX	
		iPP	50 14.00		
LON	72.17	316	e(P)	47 46.70	-1.6
GMW	72.24	317	eP	47 48.00	-0.6
PHC	72.73	321	eP	47 56.00	4.6X
III	72.79	280	eP	47 51.80	-0.7
EUR	72.89	307	iP	47 52.50	-0.3
	0.8s	14.80nm			5.1mb
BMN	73.13	308	eP	47 55.10	1.0
PME	73.61	338	eP	47 56.60	0.3
	2.1s	539.00nm			6.2mb
	Z 20s	6.00um			5.9Msz
PMR	73.66	338	eP	47 57.00	0.4
ILT	73.87	353	eP	47 58.00	0.4
	1.0s	170.00nm			6.6mb
		iPcP	48 18.60		
		ePP	50 47.00		
		iS	57 30.00		
		iSS	02 12.00		
ARE	73.92	234	eP	47 57.50	-1.6
		e		57 28.00	
		e		58 00.00	
		e		02 20.00	
		e		06 50.00	
		e		08 10.00	
		e		11 14.00	
ACX	73.96	279	eP	47 59.80	0.8
WMQ	74.42	46	iPc	48 02.00	0.5
NPA	74.73	123	eP	48 04.00	0.6
MZX	75.42	288	eP	48 09.80	2.4
LGBM	75.63	311	eP	48 09.20	0.5
GLA	75.83	301	eP	48 03.20	-6.5X
MIN	75.88	310	eP	48 10.00	0.0
SWZ	75.95	141	iPd	48 07.00	-3.3X
VPEM	76.13	305	eP	48 12.40	0.9
MOY	76.14	34	iPc	48 12.20	1.3
	2.5s	3290.00nm			7.0mb
PRE	76.24	138	eP	48 12.00	-0.1
SLR	76.28	138	iPc	48 11.60	-0.6
	0.9s	171.00nm			6.1mb
	Z 17s	58.30um			7.0MszX
WDC	76.31	311	eP	48 11.00	-1.2
BPI	76.50	139	iPc	48 12.80	-0.7
NDI	76.54	64	iPc	48 13.50	-0.2
	0.8s	101.00nm			5.9mb
	Z 18s	13.80um			6.3Msz
	N 18s	2.75um			
	E 18s	3.44um			
		iS	57 58.00		
JAS	76.62	308	eP	48 14.70	0.7
WKTM	76.63	305	eP	48 15.30	1.1
BOD	76.64	24	iPc	48 12.40	-1.3
	1.2s	530.00nm			6.5mb
SLA	76.67	224	iPd	48 13.50	-1.0
FRI	76.73	306	eP	48 15.00	0.4
RMT	76.79	310	eP	48 15.10	0.3
KIM	76.98	143	iPc	48 16.50	0.4
	0.8s	129.00nm			6.0mb
FHC	77.03	312	eP	48 17.70	1.4
IRK	77.17	32	ePc	48 16.00	-0.8
	3.0s	2650.00nm			6.8mb
	Z 18s	56.60um			6.9Msz
	N 18s	25.20um			
	E 20s	32.20um			
		ePcP	48 33.50		
		ePP	51 09.00		
		ePPP	53 06.00		
		eS	58 06.00		

17d 19h

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                 eScS  58 33.00
                 eSS   02 56.00
YAK    77.25  15 ePc   48 16.60  -0.4
        0.7s   650.00nm          6.8mb
     Z  13s     8.70um          6.3MszX
     E  15s     9.50um
                 iPcP  48 26.70
                 iSKS  58 23.40
EVA    77.32 138 eP    48 17.70  -0.4
VIR    77.45 141 iPc   48 18.50  -0.2
ARN    77.67 308 eP    48 21.80   2.0
MHC    77.74 308 eP    48 21.90   1.6
KDC    77.78 337 eP    48 21.00   1.1
BKS    77.78 308 eP    48 24.80   4.4X
     Z  20s    20.00um          6.4Msz
     N  20s    20.00um
     E  20s    18.00um
                 e     49 05.20 164kmX
                 ePP   51 22.00
                 eS    58 16.00
                 eScS  58 48.00
                 eSS   03 20.00
SAO    77.97 307 eP    48 25.00   3.5X
ZAK    78.08  34 iPc   48 22.90   1.2
        3.0s  4750.00nm          7.0mb
     Z  20s    32.40um          6.7Msz
     N  16s    26.10um
                 ePP   51 20.00
                 ePPP  53 14.00
                 eS    58 17.60
                 eSS   03 18.50
                 eSSS  06 24.00
SUR    78.26 148 iPc   48 24.00   0.9
        0.8s    77.60nm          5.8mb
     Z  17s    32.20um          6.7MszX
TUH    78.36 149 iPc   48 24.00   0.6
CER    78.48 149 iPc   48 25.00   0.9
ANT    78.69 228 eP    48 24.00  -1.4
POO    79.97  74 eP    48 33.00   0.4
TUP    81.29  24 eP    48 35.80  -3.1X
        2.5s   740.00nm          6.3mb
LPA    81.33 213 iP+   48 40.00   0.8
     Z  20s    18.40um          6.4Msz
MGD    82.17   6 eP    48 45.00   1.6
        1.3s   160.00nm          5.9mb
     Z  16s     8.20um          6.2MszX
     N  16s     8.50um
     E  16s     5.30um
                 eS    58 51.00
                 eSS   04 20.00
DMN    82.75  61 iPc   48 47.60   0.2
KKN    82.76  61 iPc   48 47.40   0.0
        0.8s   190.00nm          6.3mb
PKI    82.98  61 iPc   48 48.50  -0.2
        0.8s   280.00nm          6.5mb
CEN    83.82 222 eP    48 53.00   0.7
TLL    83.84 224 iPc   48 53.00   0.3
GTA    84.16  44 Pc    48 54.60   0.4
                 S     59 06.00
HYB    84.22  73 eP    48 54.50  -0.2
        1.0s   220.00nm          6.3mb
                 eS    59 16.00
LSA    85.50  56 P     49 03.00   1.5
                 PP    52 18.80
                 S     59 31.80
                 SS    05 13.80
JACH   85.66 223 iP    49 02.50   0.9
GBA    85.67  76 P     49 02.40   0.5
PEL    86.06 222 iPc   49 04.00   0.5
BACH   86.12 222 iP    49 05.50   1.7
SAN    86.29 222 eP    49 06.00   1.4
CHCH   86.65 222 iP    49 07.00   0.6
LNV    87.07 222 iP    49 09.50   1.2
KOD    87.73  79 eP    49 12.50   0.1
BTO    88.54  37 eP    49 16.40   0.7
SHL    88.70  58 iP    49 17.10   0.3
                 iS    59 59.80
LZH    88.76  44 Pc+   49 18.00   1.1
        3.0s  4770.00nm          7.3mb X
     N  11s     3.70um
     E  14s    13.70um
                 sP    49 55.00
                 PP    52 49.00
                 i     53 08.50
                 S     59 50.50
                 i     00 14.00
                 PS    01 10.00

                 SS    05 57.00
HMC    89.07  36 eP    49 21.50   3.3X
PET    89.69   2 eP    49 22.40   1.7
                 iS    00 12.00
                 eSS   06 00.00
BJI    91.82  34 eP    49 31.00   0.2
        1.5s    1.90nm          4.3mb X
     N  19s    20.20um
     E  18s    17.30um
                 pP    49 39.00  25km
                 PP    53 11.00
                 e(S)  00 25.00
                 sS    00 40.00
                 SS    06 42.00
TIY    91.96  37 eP    49 32.80   1.2
CN2    92.29  26 e(P)  49 31.80  -1.1
                 PP    53 14.00
                 eS    00 30.00
                 sS    00 40.00
                 PS    01 47.00
CD2    92.50  47 eP    49 35.20   1.0
MDJ    92.92  23 eP    49 37.50   1.7
                 S     00 42.00
XAN    93.04  42 eP    49 39.00   2.4
                 PP    53 20.00
                 SKS   00 13.00
SNY    93.33  28 iPd   49 40.00   2.3
                 PP    53 27.00
                 SKS   00 17.00
YSS    93.92  13 eP    49 42.10   1.8
     Z  18s    7.40um          6.2Msz
     N  18s    5.60um
     E  17s    5.50um
                 ePS   02 12.00
                 e     07 14.00
VLA    94.98  22 eP    49 49.00   3.7X
                 ePP   53 41.00
                 eS    00 59.00
                 iPS   02 19.00
                 eSS   07 17.00
DL2    95.08  31 P     49 51.00   5.2X
                 eSKS  00 22.00
                 eS    00 56.00
TIA    95.39  35 eP    49 49.70   2.4
                 PP    53 39.00
                 eSKS  00 20.00
                 eS    00 54.70
KMI    96.09  52 eP    49 53.00   2.0
        7.0s    1.70nm          3.6mb X
     E  20s    5.60um
                 SKS   00 05.00
                 iS    00 34.00
GYA    97.50  48 P     50 01.00   3.8X
                 PP    53 56.00
                 SKS   00 41.00
CHTO   98.07  59 eP    49 54.80  -4.9X
WHN    98.62  41 P     50 05.00   3.0X
                 iPP   54 04.00
                 SKS   00 45.00
                 PS    02 54.00
BDT    99.19  60 eP    50 19.50  14.7X
                 i     54 11.90
NJ2    99.62  36 Pd    50 11.00   4.4X
                 PP    54 14.00
                 SKS   00 46.00
                 sS    01 46.00
                 PS    03 07.00
SSE   101.51  35 Pdiff+50 19.00   4.1X
        4.0s    0.60nm          3.5mb X
     Z  16s    3.20um          5.9MszX
     N  16s    5.50um
     E  16s    7.90um
                 ePP   54 23.00
                 SKS   57 20.50
                 PPP   58 01.50
                 SKKS  00 59.00
                 SS    13 54.00
MAT   102.88  20 ePdiff50 24.00   3.1X
     Z  20s    6.74um          6.2Msz
GZH   103.97  46 Pdiff 50 30.20   4.2X
ANP   106.63  38 ePdiff50 44.00   6.1X
MAW   120.68 154 ePKP  55 16.00   2.0
AAI   133.91  51 ePKP  55 33.00  -7.9X
        0.5s   50.40nm
MEK   141.50  87 iPKPc 55 53.10  -1.6
BAL   141.75  93 ePKP  55 54.00  -1.0
MUN   141.87  96 ePKP  55 51.00  -4.2X

MTN   142.72  57 ePKP  55 52.00  -5.0X
KLB   142.96  94 ePKP  55 53.00  -4.1X
NWAO  143.02  97 ePKP  55 55.00  -2.1
KNA   143.13  63 ePKP  55 54.30  -3.7X
RAB   145.43  18 iPKP  56 05.20   3.5X
KLG   145.59  91 iPKPd 56 02.90   1.3
AFI   147.14 309 e(PKP)56 12.00   7.5X
WBN   147.61  80 ePKP  56 08.00   3.0X
DRV   148.17 163 iPKP  56 06.00   1.4
PAA   148.20  13 ePKP  56 08.00   1.7
WB2   149.87  62 ePKP  56 09.20   0.6
                 i     56 13.80
                 i     56 15.70
                 eSKP  59 50.30
                 eSKS  03 14.00
ISQ   153.94  56 ePKP  56 14.00  -9.6
CTA   157.54  43 iPKP  56 20.90   1.6
        1.3s   21.10nm
                 i     56 55.00
                 i     20 00.30
CTAO  157.54  43 ePKP  56 21.40   2.1
        0.9s   10.40nm
                 e     56 55.30
KOU   162.95 354 iPKPc 56 35.90  11.0X
YOU   168.09  78 ePKP  56 31.10   2.2
CAN   168.89  82 ePKP  56 31.20   1.8
WEL   169.82 245 e(PKP)56 25.00  -4.7X
                 e(PP) 57 28.00
                 e     01 37.00
     S.D. = 1.1  on 372 of 447 obs.

   OCT  22, 1993  04h 21m 35.06± 0.11s
   60.663 S ± 3.7km   25.467 W ± 3.1km
   DEPTH =  24.0km  ( 19 depth phases)
   6.5mb ( 21 obs.)  6.8Msz ( 27 obs.)
 SOUTH SANDWICH ISLANDS REGION   (153)

OMC    15.37 246 iP    25 12.00   0.3
NVL    18.02 140 eP    25 40.00  -5.0X
SPA    29.50 180 ePc   27 38.80  -0.5
        1.3s  1140.00nm          6.5mb
     Z  20s    60.30um          6.2Msz
LPA    33.14 306 iPd+  28 16.80   5.6X
        1.1s  2030.00nm          7.0mb
     Z  20s   284.00um          7.0Msz
MAW    35.97 139 iPc   28 35.80   0.7
CON    38.19 287 iPc   28 54.50   0.4
                 PP    29 00.00
                 PcS   34 43.20
                 i     37 44.00
CHCH   39.45 292 iPc   29 04.50  -0.3
                 i     29 11.10  22km
MDZ    39.52 295 i(P)  29 05.20  -0.1
PCH    39.65 292 iP    29 05.90  -0.6
TUM    39.72  67 iPd   29 08.00   1.0
CER    39.73  67 iPc   29 07.00  -0.1
                 i     29 16.50  32km
LNV    39.78 291 iPc   29 07.50   0.1
                 i     29 14.00  22km
                 i     29 31.50
TACH   39.81 292 iP    29 06.80  -0.9
                 i     29 14.50  26km
BACH   39.86 293 eP    29 08.50   0.3
                 i     29 16.20  26km
BMA    40.12 333 eP    29 09.90  -0.5
                 i     29 11.40   5kmX
                 e     29 16.80
PEL    40.13 292 iPc   29 09.50  -0.8
                 PP    30 56.80
                 iS    34 23.00
                 e     37 24.00
                 e     40 17.00
CFA    40.33 296 ePd   29 10.50  -1.5
ROCH   40.42 292 iP    29 12.80  -0.2
JACH   40.47 293 eP    29 12.50  -0.7
                 i     29 21.00  29km
VAO    40.51 329 eP    29 12.70  -0.9
                 i     29 15.30   9kmX
                 i     29 20.60
ITB7   40.62 318 iP    29 14.70   0.3
 15    40.94 318 eP    29 15.90  -1.1
ITL    41.13 318 iP    29 18.00  -0.6
SUH    41.25  68 iPd   29 21.50   1.8
        0.5s   70.40nm          5.6mb
                 i     29 27.80  21km
SBA    41.53 184 eP    29 22.30   1.0
TLL    42.70 295 iPd   29 32.00   0.3
```

22d 04h

YJA	47.46	306	ePd	30	10.80	0.7				i	33	52.30	26km				e	47	32.00		
			(S)	31	52.00		FDF	80.38	325	eP	33	47.25	1.6				e	48	44.00		
BAO	47.83	330	P	30	10.00	-2.6	MDN	81.01	325	eP	33	50.60	1.7				e	50	00.00		
ANT	48.13	300	iPKP+	30	20.00	5.2X	MGG	81.56	325	eP	33	53.60	1.9				e	54	20.00		
			i	31	51.20	471kmX	PAG	81.76	325	eP	33	55.00	2.1				e	05	03.00		
			i	37	08.50		TOO	81.84	173	eP	33	52.00	-1.1	PVC	101.08	199	ePdiff	35	32.50	8.4X	
CAC	48.63	302	ePKP	30	19.00	0.1	NWAO	81.87	149	eP	33	54.00	0.7	KNA	101.09	155	ePdiff	35	32.00	7.9X	
			i	30	26.00	23km		0.9s	286.00nm			6.3mb		PTO	102.38	13	iPdiff	35	40.60	11.3X	
KSR	49.57	70	iPd	30	26.50	0.5	BFD	82.02	170	eP	33	53.00	-1.0				iS	47	07.00		
			i	30	32.00	18km	SEG	82.07	325	eP	33	56.00	1.6	PRNI	193.16	51	ePdiff	35	50.20	17.1X	
BPI	49.83	71	iPd	30	28.00	0.0	MUN	82.51	148	eP	33	56.00	-0.6	EBR	103.34	20	ePdiff	35	44.00	10.4X	
EVA	50.04	72	iPd	30	30.00	0.4	BPA	82.78	325	eP	33	59.00	0.9				e	39	45.00		
			i	30	36.00	20km	WAM	83.38	175	eP	34	00.60	-0.5				e	40	01.00		
SLR	50.32	71	iPd	30	29.50	-2.2	BAL	83.94	148	eP	34	03.00	-1.0				eSKS	46	23.00		
	0.9s	461.00nm				6.5mb	CAN	84.26	175	eP	34	05.20	-0.4				eS	47	35.00		
	Z 20s	55.30um				6.6Msz	SJG	85.05	322	eP	34	06.00	-3.6X				ePS	49	07.00		
			i	30	39.50	33km		1.0s	170.00nm			6.2mb		LGR	104.47	17	ePdiff	35	50.50	11.9X	
JOZ	50.66	76	iPc	30	33.70	-0.5		Z 22s	48.20um			6.8Msz					e	39	09.50		
			i	30	41.80	27km	YOU	85.27	175	eP	34	09.20	-1.5				i(PP)	40	07.50		
CNG	51.69	75	iPd	30	42.00	0.1	AAE	85.65	63	eP	34	17.50	4.4X				eS	48	47.00		
	1.0s	1180.00nm				6.8mb	RIV	85.81	177	eP	34	17.00	3.7X	KOD	105.20	96	ePdiff	35	50.00	7.1X	
			eS	45	35.00		STK	87.18	169	eP	34	19.00	-1.1				ePP	40	11.00		
			e	49	08.00		CMS	87.91	173	eP	34	25.00	1.4	EPF	105.47	19	ePdiff	35	57.00	13.9X	
DRV	52.53	173	iP	30	46.50	-1.3	MEK	88.22	148	iPc	34	24.10	-1.1		1.2s		34.50nm				
SOB1	52.62	341	eP	30	46.40	-2.7	COO	89.07	178	eP	34	32.00	2.8	ATH	106.19	39	ePdiff	35	56.00	9.6X	
			i	30	48.90	8kmX	TEN	89.12	8	Pc	34	38.70	9.6X				ePP	40	17.00		
			i	30	52.40					PP	38	10.90		SGO	106.23	31	ePdiff	36	04.00	17.5X	
			i	30	55.10					S	45	36.90					e	40	14.00		
ITR	52.69	344	eP	30	48.00	-1.6	ARO	89.68	66	eP	34	36.00	3.8X	RDP	106.73	29	ePdiff	36	02.50	13.7X	
			i	30	49.40	5kmX	TVO	89.81	232	iP	34	40.80	7.9X				e	40	24.00		
			i	30	55.40		PPN	90.11	232	iP	34	42.00	7.8X	RMP	106.78	29	iPdiff	35	58.00	9.1X	
LPB	53.58	306	Pd	30	54.00	-2.6		1.3s	230.00nm			6.3mb					iPP	39	44.00		
	1.0s	1500.00nm				6.9mb	WBN	90.55	155	eP	34	36.00	-0.2				eS	47	06.00		
			(S)	35	07.00		RUV	91.42	235	iP	34	46.50	6.3X				iPS	48	48.00		
ZOBO	53.83	306	iP	30	57.00	-1.6		1.3s	1030.00nm			7.0mb		CDR	107.06	23	ePdiff	36	09.40	19.3X	
ARE	55.03	303	iPc	31	07.00	-0.1	VAH	91.47	235	iP	34	46.70	6.2X				e	39	57.00		
BUL	55.29	68	iPd	31	08.00	-0.8		1.3s	915.00nm			7.0mb					e	40	23.70		
			ipP	31	15.00	23km	TPT	91.70	235	iP	34	48.00	6.5X	CAF	107.60	20	ePdiff	35	58.40	5.9X	
			iS	38	58.00			1.3s	1390.00nm			7.2mb			1.2s		27.60nm			6.2mb	
KRI	58.64	67	iPd	31	32.00	-0.6	PMO	91.79	235	iP	34	48.40	6.5X	IZM	107.70	41	ePdiff	36	10.00	16.8X	
			ipP	31	38.00	20km		1.3s	804.00nm			7.0mb		BCK	107.96	44	ePdiff	36	13.00	18.6X	
			iPP	33	45.00		ASPA	94.31	161	eP	34	52.00	-1.6	GBA	108.08	94	Pdiffd	36	06.00	10.8X	
MTD	59.58	69	iPd	31	39.00	-0.1	VHO	96.04	294	iP	35	04.00	2.5		1.1s		9.10nm				
			ipP	31	45.00	20km	NOU	96.76	191	iPc	35	09.00	4.3X	THE	108.41	37	ePdiff	36	07.40	11.2X	
			eS	40	04.00		ACX	97.13	292	eP	35	14.80	8.6X				e	40	32.80		
MUA	60.60	301	eP	31	52.40	6.0X	ISO	98.01	166	eP	35	10.00	-0.4	LSF	108.79	19	ePdiff	36	13.40	15.6X	
			iS	40	08.80		WB2	98.03	161	eP	35	06.00	-4.5X		1.2s		23.00nm				
ATB	60.75	329	iP	31	46.00	-0.9				i	35	13.60	24km	JCT	108.93	299	ePdiff	36	05.50	6.7X	
NNA	61.29	299	iPc	31	51.00	0.3				i	35	18.20			1.0s		65.00nm			6.8mb	
	1.6s	233.00nm				6.1mb				eS	39	08.30			Z 20s		11.00um			6.4Msz	
			e	40	00.00		SFS	98.06	16	iPd	35	21.00	11.1X				eS	46	48.00		
NPA	64.64	75	iP	32	14.00	1.2				iPP	39	20.00		VAY	108.93	36	ePdiff	36	13.60	15.1X	
			i(pP)	32	19.00	16km				ePPP	41	30.00		MZF	108.94	20	ePdiff	36	16.20	17.8X	
			e	32	37.00					iSKS	45	59.00			1.2s		24.00nm				
			e	34	42.00					iS	47	00.00		TCF	108.94	20	ePdiff	36	09.20	10.7X	
			e(S)	41	04.00					iSS	53	24.00		TTG	109.03	33	e(Pdiff	36	12.50	13.6X	
MCQ	65.13	183	eP	32	24.00	8.6X	LJX	98.24	295	eP	35	21.10	9.5X				e	40	37.00		
AVT	65.46	85	ePd	32	28.00	1.7	III	98.27	293	iP	35	15.00	3.5X				e	50	07.00		
KIC	68.78	22	eP	32	39.00	0.1	IIT	98.31	294	eP	35	23.50	11.7X	TSI	109.14	119	e(PKP)	40	12.00	7.8X	
			S	41	43.30		MAL	98.57	17	iP-	35	26.00	7.9X	SKO	109.21	35	ePdiff	36	17.00	17.3X	
			e	01	01.90					iPP	39	24.00					iPP	40	38.20		
BNG	73.37	46	iPd	33	06.30	-0.3				iS	46	50.00					iSKS	46	48.00		
	0.8s	100.00nm				5.9mb				iPS	48	12.00					iSKKS	48	27.00		
PSO	73.38	305	ePKP	33	08.00	0.9				iSS	54	12.00					iSP	49	57.00		
MSZ	74.46	190	eP	33	12.20	-0.3	KOU	98.68	189	iPc	35	14.60	1.2				iSS	56	02.00		
			ipP	33	20.90	28km	IIP	98.87	294	iP	35	25.00	10.6X	ORO	109.37	24	e(Pdiff	35	45.00	-15.5X	
			iPcP	33	25.70		IIM	98.97	293	iP	35	18.50	3.7X				e	39	18.00		
			i	33	31.00		TAC	99.04	293	iP	35	26.00	10.9X	ORO	109.37	24	ePdiff	36	18.00	17.5X	
			(PP)	36	04.00		CRT	99.14	18	eP	35	28.00	13.2X				e	40	40.00		
BOG	75.23	309	ePKP	33	18.00	0.3	CTA	99.26	172	iPc	35	19.16	3.1X	AVF	109.63	21	ePdiff	36	14.60	13.1X	
FUQ	75.88	310	iPKP	33	22.00	0.6		1.5s	340.00nm			6.7mb			1.5s		33.30nm				
TRN	76.57	324	eP	33	26.00	1.2				iPP	39	20.00		HNR	110.00	186	ePdiff	36	10.00	6.2X	
	1.2s	78.90nm				5.6mb				iSKS	46	00.00		BHO	110.24	304	ePdiff	36	14.70	16.2X	
WEL	77.06	196	iP	33	32.00	4.7X				i	46	52.00			1.1s		16.10nm				
			PP	36	29.00					iPS	48	22.00		YLV	110.35	42	ePdiff	36	21.00	16.0X	
			S	43	27.00					iSS	53	22.00		GPA	110.41	42	ePdiff	36	25.00	19.8X	
TCW	77.20	195	P	33	32.20	4.1X	VUN	99.26	203	eP	35	23.60	7.6X	POO	110.52	89	ePdiff	36	18.00	11.8X	
MNG	77.63	196	P	33	34.00	3.6X	IIC	99.39	294	iP	35	19.00	2.2	CTI	110.55	27	ePdiff	36	22.00	16.2X	
UAV	77.83	314	iPd	33	40.00	7.9X	NDF	99.70	202	eP	35	27.50	9.5X				e	40	49.00		
SDV	77.90	314	iPd	33	34.00	1.5	ABA	99.89	23	eP	35	38.00	19.8X	IST	110.66	41	iPdiff	36	18.00	11.8X	
	0.7s	85.70nm				5.9mb	LIS	99.93	13	iPc	35	29.90	11.6X				i	51	20.00		
TOV	78.45	315	eP	33	36.00	0.7	ALI	100.77	20	iPdiff	35	32.00	9.8X	ISK	110.70	41	ePdiff	36	06.00	-0.4	
RKT	79.14	242	iP	33	49.10	10.1X				iPP	39	38.00		TRI	110.71	28	ePdiff	36	16.00	9.7X	
	1.2s	875.00nm								iPS	48	42.00					iPP	40	47.00		
GNZ	79.19	199	P	33	43.10	4.1X	AFI	100.95	213	iPdiff	35	28.00	4.4X				iPPP	43	16.00		
KRP	80.26	197	P	33	44.00	-0.8				e	39	32.00					i	46	56.00		
	0.9s	72.00nm				5.7mb				e	42	32.00					iSKKS	47	44.00		

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                iS    48 36.00
                iSP   50 14.00
                iSPP  51 12.00
                iSS   56 00.00
                iSSS  00 08.00
IPM   111.16 121 ePKPd 40 12.20   4.1X
                e     40 18.50
                e     40 37.00
OGA   111.19  26 ePdiff36 28.00  19.3X
LJU   111.21  29 ePdiff36 16.80   8.3X
                e     40 52.00
                e     50 31.00
BNH   111.32 327 e(PKP)40 14.20   6.7X
RBL   111.36  28 ePKP  40 20.00  12.4X
MSL   111.66  54 ePdiff36 21.00  10.2X
                i     40 21.00
                iPPP  42 04.50
                iS    47 18.00
                i     50 26.00
                i     50 46.00
RLO   111.85 305 e(Pdif36 27.00  15.3X
HYB   111.89  93 ePdiff36 18.50   6.3X
                e     40 12.00
TUL   111.94 305 Pdiff 36 27.50  15.5X
      Z  22s    27.40um          6.8Msz
RSNY  112.19 324 e(PKP)40 14.30   5.2X
CLO   112.45  35 ePdiff36 34.00  19.9X
AAI   112.63 151 ePKPd 40 17.90   7.1X
       0.7s    51.70nm
BUC1  112.72  37 ePdiff36 24.00   8.7X
MNT   112.81 325 ePKP  39 56.50 -13.7X
                pP    40 18.00
WLF   112.90  22 Pdiff 36 31.00  15.1X
                e     41 05.00
                SKS   47 07.00
                SKKS  48 12.00
                e     49 09.00
                PS    50 37.00
                SS    56 52.00
VAL   112.91  10 Pdiff 36 31.00  15.1X
                PS    49 00.00
KMR   113.01  28 e(Pdif36 27.00  10.5X
DOU   113.03  21 Pdiff-36 29.00  12.5X
                e     39 50.50
                e     40 21.50
                PP    41 09.50
                SKKKS 48 13.00
                PS    50 38.00
COZ   113.11  36 ePKP  40 21.00   9.9X
OTT   113.31 324 ePKP  40 19.00   7.8X
       0.8s    36.00nm
ISR   113.60  37 ePdiff36 03.00 -16.3X
UCC   113.67  20 PKPc  40 20.70   8.9X
                e     40 26.50
                PS    51 01.00
VKA   113.71  29 (PKP) 39 56.50 -15.5X
       6.5s  8570.00nm
      Z  20s    17.90um          6.7Msz
                e     40 19.50
                ePP   41 11.00
                e     50 01.50
                i     50 57.00
WET   113.75  26 ePdiff36 36.20  16.4X
      Z  20s    35.20um          7.0Msz
                e     41 12.00
TNS   113.86  23 ePKP  40 19.90   7.6X
                e     41 10.60
ENN   113.91  21 ePKP  40 15.50   3.3X
       1.3s    25.00nm
                e     40 23.50
                ePP   41 10.00
CJR   114.17  35 ePKP  40 05.80  -7.2X
VRI   114.31  37 ePKP  40 15.50   2.3
BNS   114.33  22 iPdiff36 33.00  10.7X
                ePP   40 20.70
                e     41 17.00
                e     50 59.00
TAB   114.39  55 ePdiff36 33.00   9.9X
                e     40 24.00
MOX   114.90  25 ePdiff36 35.00  10.1X
MOX   114.90  25 ePKP  40 22.50   8.3X
       2.5s   810.00nm
                iPP   41 20.00
                ePKKP 51 00.00
                iSS   57 20.00
PRU   114.91  27 Pdiff 36 30.00   5.1X
      Z  18s    18.90um          6.7Msz
      N  19s    20.10um
      E  19s    13.80um
                e     40 20.00
                i     41 19.00
                e     49 13.00
                e     52 00.00
PRU   114.91  27 PKP   40 10.50  -3.7X
                i     40 24.50
WTS   115.25  21 ePKP  40 23.00   8.3X
       1.3s    50.00nm
                e     40 26.00
                ePP   41 07.00
                e     41 19.50
ERE   115.47  53 ePKP  40 22.00   6.3X
                iSP   51 05.00
ERE   115.47  53 ePdiff36 40.00  12.2X
SPC   115.54  31 ePKP  40 01.00 -14.7X
                i     41 14.70
UZH   115.57  33 ePdiff36 38.00  10.1X
      Z  16s    26.00um          6.9MszX
      N  16s     9.00um
      E  16s    16.00um
                eSP   51 10.00
                eSPP  52 30.00
                iSS   57 30.00
BRG   115.61  26 ePKP  40 17.00   1.5
      Z  18s    21.00um          6.8Msz
      N  18s    11.00um
      E  18s    23.00um
                i     40 25.90
                ePKKP 50 56.90
BRG   115.61  26 ePdiff36 36.00   8.0X
GRS   115.62  55 iPKP  40 24.00   7.9X
                iSP   51 10.00
GRS   115.62  55 iPdiff36 37.00   8.5X
ALQ   115.65 296 ePKP  40 23.00   6.6X
      Z  18s    25.80um          6.9Msz
ALQ   115.65 296 ePdiff36 37.00   8.2X
LEN   115.72  52 ePKP  40 25.00   8.7X
       6.0s  2300.00nm
                ePP   41 30.00
                ePS   51 14.00
                eSPP  52 27.00
CLL   115.82  26 ePKP  40 26.00  10.1X
                iPP   41 29.90
                eSKS  47 24.00
SIM   115.83  43 ePdiff36 43.00  13.9X
                eSKS  47 11.00
                ePS   51 19.00
KIS   115.99  38 iPKP  40 17.00   0.7
      Z  20s     7.00um          6.3Msz
      N  19s     3.60um
      E  18s     3.60um
                iSKS  47 17.00
                iSP   51 12.00
KIS   115.99  38 iPdiff36 38.00   8.3X
WIT   116.01  21 ePKP  40 27.50  11.4X
                e     40 46.00
                ePP   41 13.00
JAY   116.09 165 ePKPd 40 20.50   2.9X
KSP   116.11  28 ePKP  40 22.30   5.8X
       2.3s   230.00nm
                e     40 27.60
                e     41 23.00
                i     41 33.70
                e     50 47.00
KRA   116.27  31 ePKPc 40 19.40   2.7X
       1.9s   289.00nm
      Z  18s    28.70um          6.9Msz
      N  18s     9.20um
      E  18s    21.80um
                e     40 27.40
                e     40 44.70
                i     41 32.00
                iS    51 16.00
KHI   116.38  67 e(PKP)40 15.40  -2.3
BKR   116.42  51 iPKP  40 22.30   4.7X
                ePPP  44 09.80
                eSP   51 19.80
                eSS   57 49.80
BKR   116.42  51 iPdiff36 40.80   8.7X
       1.2s  2800.00nm
SOC   116.60  48 iPKP  40 26.00   8.4X
                iSP   51 21.00
SOC   116.60  48 iPdiff36 42.00   9.5X
KRV   116.60  54 ePKP  40 22.00   4.3X
                ePS   51 27.00
KRV   116.60  54 ePdiff36 44.00  11.3X
MNI   116.71 146 ePKP  40 27.00   8.3X
ANN   116.86  45 ePKP  40 19.00   1.0
                ePP   41 37.00
                eSP   51 20.00
ANN   116.86  45 ePdiff36 42.00   8.3X
MTA   116.89  52 iPKP  40 27.60   9.4X
                iPP   41 36.60
                ePPP  44 20.60
MTA   116.89  52 ePdiff36 40.60   6.7X
EKA   117.00  14 PKP   40 28.00  10.0X
       1.8s   123.00nm
NNT   117.75 116 ePKP  40 27.50   6.9X
                e     50 53.00
BAK   117.82  57 ePKP  40 18.00  -2.0
      N  15s    58.30um
      E  15s    30.90um
                iPP   41 46.00
GLA   117.89 288 e(PKP)40 23.20   2.7X
                e     40 28.50
PYA   118.22  50 iPKP  40 24.00   3.3X
      Z  20s    23.50um          6.8Msz
      N  20s    25.00um
      E  20s    15.50um
                iSP   51 34.00
                eSS   58 10.00
PYA   118.22  50 ePdiff36 50.00  10.2X
MAK   119.04  53 iPKP  40 31.00   8.8X
                iPP   41 53.00
                iPPP  44 30.00
                eSKS  47 21.00
                iSS   58 19.00
MAK   119.04  53 ePdiff36 54.00  10.6X
GLD   119.13 300 e(PKP)40 23.00   0.2
       1.2s    50.50nm
GOL   119.15 300 e(PKP)40 25.70   2.7X
       1.2s    79.50nm
      Z  22s    24.60um          6.8Msz
KHT   119.18 113 ePKP  40 29.10   5.8X
                e     50 49.80
VAN   119.30  64 ePKP  40 32.00   9.1X
                ePP   41 52.00
                ePPP  44 28.00
                eSP   51 38.00
VAN   119.30  64 ePdiff36 53.50   8.8X
ASH   119.41  64 ePKP  40 30.00   6.9X
KAT   119.53  62 iPKPd 40 30.00   6.7X
       6.0s  5000.00nm
      Z  18s    16.00um          6.7Msz
      N  18s    22.00um
      E  18s    28.00um
                iPP   41 54.00
                ePPP  44 32.00
                iSP   51 42.00
SCH   119.71 334 ePKP  40 22.00  -1.2
       1.2s   148.00nm
MUD   119.93  21 iPKPd 40 32.20   8.7X
       1.2s   120.00nm
LHC   120.28 316 ePKP  40 29.00   4.6X
       1.1s   125.00nm
PCT   120.34 116 ePKP  40 28.70   3.2X
                e     50 41.00
NST   120.65 114 ePKP  40 27.20   1.2
BDT   121.52 112 ePKP  40 27.00  -0.6
       1.0s   175.00nm
                i     50 37.00
                e     53 55.00
RSSD  122.24 303 ePKP  40 24.00  -4.6X
                e     40 37.20
DAV   122.30 145 ePKP  40 37.00   7.7X
PPR   122.72 137 ePKP  40 35.00   5.0X
DUG   122.82 294 e(PKP)40 30.10   0.3
                e     40 38.00
CHG   122.86 112 ePKP  40 27.50  -2.7X
KONO  123.03  20 ePKP  40 37.80   8.5X
PRI   123.17 286 ePKP  40 32.00   1.5
                ePKKP 50 33.00
FRI   123.41 287 ePKP  40 31.30   0.5
                ePKKP 50 30.50
BDW   123.48 299 e(PKP)40 25.70  -5.4X
       1.3s   151.00nm
EUR   123.68 292 iPKP  40 35.20   3.6X
       0.6s     3.59nm
DMN   123.70  93 ePKP  40 31.20  -0.8
PKI   123.81  93 ePKP  40 31.00  -1.3
       1.2s   670.00nm
RSON  123.88 315 e(PKP)40 30.10  -1.2
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        1.2s   145.00nm
KKN   123.93  93 ePKP   40 31.40  -1.0
SAO   124.05 285 ePKP   40 32.50   0.4
HFS   124.22  22 (PKP)  40 31.70   0.0
REY   124.51   2 ePKP   40 35.30   3.3X
                 i      40 42.60
JAS   124.52 287 ePKP   40 33.90   0.9
                 ePP    42 41.00
                 ePKKP  50 26.30
                 ePKKS  53 59.00
KUL   124.60  73 ePKP   40 33.80   0.6
        4.2s  2000.00nm
                 iPP    42 31.30
MHC   124.60 286 ePKP   40 34.50   1.2
SAM   124.73  70 iPKP   40 37.00   3.6X
      Z  17s    45.00um          7.2MszX
      N  17s    34.00um
                 iPP    42 29.00
SAM   124.73  70 ePdiff37 21.50  12.7X
UPP   124.74  25 iPKP   40 31.50  -1.1
                 i      40 33.50
                 i      40 41.50
KHO   125.11  75 ePKP   40 34.50   0.1
                 ePP    42 33.00
                 eSPP   54 00.00
                 iSSS   04 21.00
BKS   125.31 286 ePKP   40 36.20   1.7
      Z  20s    16.00um          6.7Msz
      N  20s    11.00um
      E  20s    15.00um
                 ePP    42 33.60
                 ePKKS  54 04.00
                 eSS    59 44.00
OBN   125.48  39 iPKP   40 37.00   2.8X
      Z  20s    25.00um          6.9Msz
      N  20s    11.00um
      E  20s    21.00um
                 iSPP   54 06.00
OBN   125.48  39 ePdiff37 32.00  20.4X
GAR   125.74  73 ePKP   40 35.50   0.0
        1.5s   450.00nm
                 iPP    42 34.00
AKU   126.16   4 iPKP   40 32.70  -2.5X
        1.0s    32.00nm
                 i      40 42.90
                 i      42 38.40
MOS   126.28  39 ePKPd  40 38.00   2.2
      Z  18s    17.90um          6.8Msz
      E  19s    21.30um
                 iPP    42 46.00
                 ePP    45 30.00
                 eSKS   47 40.00
                 eSP    52 42.00
                 eSPP   54 14.00
NUR   126.88  28 ePKP   40 33.00  -3.8X
        1.3s   571.00nm
                 i      40 46.80
                 ePP    42 39.00
                 eSKP   43 58.00
                 e      49 04.00
                 eS     51 04.00
                 ePS    52 46.00
                 eSS    59 32.00
MIN   126.98 288 ePKP   40 37.70  -0.2
TAS   127.11  70 iPKP   40 41.00   3.1X
      Z  22s    40.50um          7.1Msz
                 ePP    42 46.00
                 eSPP   54 21.00
TAS   127.11  70 ePdiff37 28.00   8.7X
        8.0s   800.00nm
LRM   127.16 299 ePKP   40 27.80 -10.4X
WDC   127.60 287 ePKP   40 38.90   0.1
                 ePP    42 48.00
                 ePKKS  53 56.00
PUL   127.63  32 ePKP   40 41.00   2.8X
      Z  19s    35.00um          7.1Msz
      N  18s    11.00um
      E  18s    16.00um
                 ePPP   45 47.00
                 ePS    53 00.00
PUL   127.63  32 ePdiff37 32.00  11.0X
OCP   128.04 137 iPKP   40 47.00   6.7X
ANR   128.09  73 ePKP   40 38.00  -1.8
        1.6s   430.00nm
FRB   128.28 337 ePKP   40 31.50  -7.8X
        1.3s   602.00nm
LSA   128.39  97 PKP    40 41.10  -0.2
                 e      40 46.80
                 PP     42 51.30
FHC   128.45 287 ePKP   40 41.60   1.1
KSH   128.79  77 PKP    40 48.00   6.7X
                 PP     42 42.00
SUF   129.16  28 iPKP   40 43.70   2.6X
        1.2s   195.00nm
BAG   129.53 136 ePKP   40 45.00   1.7
FFC   129.96 313 ePKP   40 35.00  -7.8X
KMI   130.06 111 ePKP   40 39.00  -5.2X
        7.0s     4.40nm
      E  19s    27.60um
                 i      40 50.00
                 PP     42 43.50
                 PKS    44 13.00
                 SS     00 28.50
KMI   130.06 111 ePKP   40 42.00  -2.2
                 e      40 50.00
                 PP     42 53.50
SES   130.12 303 ePKP   40 38.00  -5.4X
        1.4s   404.00nm
NRN   130.34  75 PKPd   40 47.80   3.3X
FCC   130.48 320 ePKP   40 47.00   3.3X
FRU   130.77  73 iPKP   40 51.00   6.2X
      N  18s    29.00um
      E  20s    29.00um
                 iPP    43 07.00
FRU   130.77  73 ePdiff37 42.00   6.4X
KJF   130.80  28 iPKP   40 45.00   0.9
        1.3s   508.00nm
                 i      40 50.20
                 iPP    43 09.50
                 iSKP   44 18.50
                 e      50 00.00
                 eS     51 28.00
                 ePS    53 08.00
                 eSS    00 12.00
COR   131.06 290 iPKPc  40 54.00   8.8X
NEW   131.07 298 ePKP   40 29.00 -16.2X
      Z  20s    48.00um          7.2Msz
                 e      40 48.00
                 e      44 18.00
CVP   131.15 137 ePKPc  40 55.40   9.3X
AAA   132.20  74 iPKPd  40 53.80   6.2X
                 iPP    43 21.80
PRZ   132.30  76 ePKP   40 51.00   3.1X
        1.0s    60.00nm
                 ePP    43 24.00
                 eSKS   48 04.00
TLG   132.41  75 iPKP   40 53.00   5.0X
        7.0s  7000.00nm
      Z  18s    22.00um          6.9Msz
                 ePP    43 20.00
                 eSPP   55 14.00
HKC   132.52 126 ePKP   40 55.00   6.3X
                 eS     43 20.00
GZH   132.89 124 iPKPd  40 55.00   5.7X
                 PP     43 20.00
                 PKS    44 27.00
PNT   132.95 297 ePKP   40 44.00  -4.7X
        1.5s   485.00nm
                 pP     40 58.00
GYA   132.99 115 PKP    40 56.00   6.4X
                 PP     43 30.00
                 PKS    44 25.00
EDM   133.19 304 ePKP   40 39.50  -9.6X
        1.5s  1280.00nm
SOD   133.27  25 iPKP   40 45.20  -3.5X
                 i      40 50.50
                 iPP    43 21.40
                 i      44 34.00
TRO   133.79  20 ePKP   40 58.50   8.9X
PGC   134.17 294 ePKP   41 02.00  11.0X
APA   134.88  28 iPKPd  40 58.30   6.5X
                 iPP    43 35.20
                 iSPP   55 42.00
KEV   135.36  23 iPKP   40 54.00   1.4
        1.0s   100.00nm
                 i      41 02.00
                 iPP    43 36.50
                 i      44 10.50
                 ePPS   55 48.00
                 eSS    01 24.00
CD2   135.44 108 PKP    40 49.00  -5.1X
                 e      40 58.50
                 PP     43 35.00
                 PKS    44 27.00
QZH   136.63 129 PKP    40 52.00  -4.4X
                 e      41 01.00
                 iPP    43 44.00
                 PKS    44 36.00
WMQ   137.79  82 ePKP   40 56.80  -1.4
                 PP     43 53.00
ANP   137.94 133 iPKP+  40 55.00  -4.0X
                 eS     43 52.00
SEW   138.96  70 ePKPd  40 58.70  -1.2
        6.6s  *******nm
                 e      41 06.80
                 ePP    44 04.10
LZH   139.74 104 PKP    41 00.50  -1.6
                 PP     44 04.00
WHN   139.88 120 ePKP   41 00.50  -1.7
                 iPP    43 57.00
                 PKS    44 34.00
YKC   140.06 314 ePKP   40 57.50  -4.1X
        0.8s    41.00nm
RSNT  140.11 314 e(PKP)41 00.90  -0.7
YKA   140.12 314 ePKP   41 24.40  22.7X
GTA   140.42  97 iPKP   41 02.00  -1.1
                 iPP    44 09.00
                 PKS    44 36.50
XAN   140.44 111 ePKP   41 01.00  -2.2
                 PP     43 45.00
                 PKS    44 32.50
KBS   141.09  11 iPKPd  41 06.50   3.5X
MVI   141.70 145 ePKP   41 08.00   2.4
NJ2   143.07 124 PKP    41 04.20  -3.6X
                 e      41 07.00
                 iPP    44 23.00
SSE   143.15 128 ePKP   41 04.50  -3.5X
SSE   143.15 128 iPKP   41 09.00   1.0
                 PP     44 24.00
NVS   143.32  66 iPKPd  41 04.30  -3.2X
        1.3s   830.00nm
                 ePP    44 25.30
ELT   143.63  70 iPKPd  41 04.00  -4.1X
        1.3s   620.00nm
ALE   144.19 352 ePKP   41 06.40  -2.0
        0.7s   621.00nm
TIY   145.08 112 ePKP   41 09.80  -1.4
                 PP     44 37.00
CBI   145.40 160 ePKP   41 10.00  -1.9
TIA   145.92 119 ePKP   41 12.00  -0.6
                 PP     44 41.50
                 PKS    44 45.50
                 SKKS   51 21.00
TAJ   146.24 142 ePKP   41 17.00   3.8X
BTO   146.26 106 PKP    41 14.50   1.4
                 e      41 19.00
                 PP     44 46.00
HHC   147.18 107 iPKPd  41 19.40   4.8X
                 e      41 25.00
NGS   147.73 139 PKP    41 22.40   6.8X
KHE   148.15  18 iPKPd  41 19.00   4.1X
        1.8s   630.00nm
      Z  18s    26.50um          7.1Msz
      N  18s    12.00um
      E  18s    10.00um
                 i      41 31.00
NOB   148.17 142 ePKP   41 23.00   6.8X
MBC   148.54 333 ePKP   41 13.00  -2.6X
BJI   148.67 114 ePKP   41 10.50  -6.3X
      Z  18s    17.90um          6.9Msz
      N  18s    17.20um
                 i      41 24.00
                 sPKP   42 35.00
                 PP     44 51.00
                 i      46 42.50
                 e      48 35.00
                 SKS    50 14.00
                 PPS    00 21.00
BJI   148.67 114 ePKP   41 18.50   1.7
                 e      41 24.00
                 PP     44 51.00
PCA   148.94 298 PKP    41 08.20  -8.6X
SHN   149.20 139 ePKP   41 23.00   5.1X
MOY   149.68  83 ePKP   41 18.00   0.0
        1.6s   800.00nm
                 i      41 26.70
INK   149.83 315 ePKP   41 16.00  -1.7
        0.7s   512.00nm
ZAK   149.99  87 ePKP   41 18.00  -0.5
        1.5s  1750.00nm
                 ePP    45 02.90
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                 eSS   04 32.50
DL2   150.11 122 iPKPd 41 25.00   5.9X
SHK   150.28 142 ePKP  41 20.30   0.8
TKS   150.40 145 ePKP  41 28.00   8.4X
IRK   151.67  84 ePKP  41 23.00   2.0
       4.0s  1850.00nm
                 e     41 28.00
                 e     41 44.80
                 eSPP  58 12.00
                 eSS   04 44.00
NRI   152.09  44 iPKPd 41 21.90   0.8
       2.1s   410.00nm
                 iPP   45 19.00
                 iSKS  48 37.00
KYS   152.88 153 ePKP  41 34.00  10.7X
OYM   152.89 152 ePKP  41 26.50   3.2X
YOK   153.00 152 ePKP+ 41 33.00   9.6X
SRY   153.08 152 ePKP  41 34.00  10.5X
KDC   153.33 287 (PKP) 41 18.30  -4.8X
SNY   153.37 121 iPKPd 41 29.00   5.3X
                 PP    45 24.00
DDR   153.43 151 ePKP  41 26.30   2.2
PMR   153.50 297 (PKP) 41 13.70  -9.5X
      Z  20s    30.00um          7.1Msz
MAT   153.71 149 PKP   41 27.00   2.6X
                 SKKS  52 14.00
TSK   153.85 153 ePKP  41 34.00   9.4X
COL   154.09 304 ePKP  41 25.00   1.0
      Z  19s    37.40um          7.2Msz
FBA   154.09 304 (PKP) 41 13.00 -11.0X
CN2   155.77 121 PKPd  41 30.00   3.1X
                 e     41 57.00
                 PP    45 34.00
IMA   156.76 306 (PKP) 41 12.90 -14.9X
TTA   156.98 297 (PKP) 41 12.80 -15.2X
MDJ   158.14 126 PKPd  41 36.00   6.1X
                 PKS   45 08.00
                 PP    45 46.00
BOD   159.41  80 ePKP  41 22.80  -8.0X
       1.2s   160.00nm
TUP   160.58  93 ePKPc 41 33.30   1.2
       2.5s   660.00nm
KUR   164.04 163 iPKPd 41 42.50   6.6X
       6.0s   *******nm
                 ePP   46 20.00
                 ePPP  50 09.00
YSS   164.69 148 ePKP  41 40.80   4.4X
       8.0s   *******nm
                 iPP   46 26.00
                 ePPP  50 16.00
                 ePPS  00 05.00
                 eSSS  13 18.00
TIK   165.05  32 ePKP  41 37.00   1.0
       3.0s  1690.00nm
                 e     42 40.50
                 ePP   46 28.00
ILT   166.41 314 iPKPd 41 35.00  -2.2
       1.8s    50.00nm
                 e     42 42.00
                 iPP   46 36.00
                 ePPP  50 32.00
YAK   168.03  73 ePKPd 41 40.10   1.5
SKR   169.94 186 iPKPc 41 48.40   8.3X
SEY   177.54  23 ePKP  41 39.60  -2.6X
       1.8s   100.00nm
                 eSS   09 09.00
MGD   178.06 185 iPKPd 41 41.30  -1.0
       2.4s  1350.00nm
                 e     43 35.00
                 iPP   47 29.00
                 ePPP  51 50.00
     S.D. = 1.3  on 145 of 385 obs.

  OCT  30, 1983  04h 12m 28.58± 0.26s
  40.337 N ± 1.5km   42.164 E ± 0.9km
  DEPTH =  21.0 ±  1.9 km
  6.1mb (129 obs.)  6.9Msz ( 25 obs.)
TURKEY                            (366)
     At least 1342 people killed, 534
     seriously injured, more than
     25,000 homeless and 50 villages
     completely destroyed in Kars and
     Erzurum Provinces.

LEN     1.35  71 iPg   12 52.00  -0.5
AKH     1.46  43 iPgc  12 54.40   0.4
BKR     1.73  36 iPn   12 59.20   1.3
STE     1.81  68 iPnd  12 59.00  -0.1
                 eSg   13 27.40
ZUG     2.19 355 ePn   13 05.00   0.6
GOR     2.21  41 P     13 32.40  27.7X
MTA     2.41  55 P     13 08.20   0.7
NAK     2.74 113 iPnd  13 14.00   1.8
KRV     3.19  83 iPn   13 19.00   0.3
                 iP+   13 27.00
GRS     3.31 103 ePn   13 32.40  11.9X
                 iSn   14 01.60
                 iSg   14 16.00
SOC     3.72 331 iPnd  13 26.00  -0.1
PYA     3.75  10 iPnd  13 28.00   1.4
       1.0s  2200.00nm
                 iPg   13 40.00
                 eSn   14 14.00
                 eSg   14 27.00
TAB     3.95 124 iPc+  13 31.00   1.5
GRO     4.00  40 P     13 33.00   3.0X
MSL     4.02 169 iPnc  13 30.50   0.1
                 iPg   13 39.50
                 iSn   14 13.50
                 i     15 22.50
                 i     17 20.00
                 i     19 42.00
KVT     4.71 281 ePn   13 39.70  -0.5
MAK     4.77  54 iPnc  13 45.00   4.0X
       4.5s   *******nm
                 eSn   14 41.00
LNK     5.40 105 iPc   13 51.00   1.1
ANN     5.79 323 iP    13 54.50  -0.8
                 eS    15 06.00
BAK     5.91  87 iPd   13 57.00  -0.1
KER     7.15 145 eP    14 16.00   1.3
BHD     7.27 165 iPnd  14 18.20   2.0
                 iP+   14 32.00
                 iPg   14 48.00
                 iSn   15 31.00
                 iS+   15 52.00
                 iSg   16 10.00
                 i     16 42.00
SIM     7.51 310 P     14 19.00  -0.6
KDE     8.20 280 eP    14 28.50  -0.8
HRI     8.73 218 ePd   14 35.20  -1.5
GPA     9.06 274 iP    14 52.60  11.4X
ADI     9.14 220 eP    14 40.50  -1.7
ALT     9.38 266 iPc   14 46.00   0.3
BCK     9.47 256 iPc   14 46.80  -0.1
HRT     9.52 277 iP    14 49.50   1.9
CRI     9.55 219 ePc   14 46.70  -1.2
YLV     9.76 275 iP    14 52.00   1.2
ZNT     9.92 218 eP    14 53.50   0.5
ISK     9.98 278 iP    14 54.60   0.8
MOI    10.20 215 eP    14 57.00   0.2
JER    10.24 216 eP    14 55.00  -2.4
                 eS    17 35.00
ELL    10.25 253 iPc   14 58.40   0.8
GVI    10.48 216 eP    15 15.00  14.3X
ASI    10.66 215 eP    15 13.50  10.3X
KAT    10.92  01 iPc   15 05.50  -1.1
        6.0s   *******nm          7.7mb X
                 iS    17 16.50
EDC    10.92 275 iPd   15 06.60  -0.1
PSN    10.93 292 iPc   15 05.00  -1.7
MKT    10.96 213 eP    15 10.00   2.7
                 eS    18 22.00
DMK    10.98 282 iP    15 07.00  -0.5
BSO    10.98 217 eP    15 07.10  -0.5
                 eS    18 18.50
CVD    11.20 296 eP    15 22.00  11.6X
TLB    11.27 297 eP    15 06.00  -5.4X
YER    11.30 258 iPc   15 11.80  -0.2
MFT    11.33 277 iP    15 11.80  -0.6
CFR    11.38 300 ePd   15 10.00  -2.9
IZM    11.70 265 iP    15 16.70  -0.6
KIS    11.71 309 iPd   15 12.50  -4.9X
        3.0s  2300.00nm          6.9mb
                 iS    17 36.50
JMB    11.90 285 eP    15 22.00   2.1
PPE    12.12 304 ePd   15 18.00  -4.9X
BIR    12.13 304 eP    15 22.00  -1.1
EZN    12.15 273 iPd   15 23.80   0.5
PRK    12.28 270 eP    15 25.50   0.4
                 eS    19 15.00
ISR    12.44 298 ePc   15 26.00  -1.3
CLI    12.46 305 eP    15 24.50  -3.1X
VRI    12.56 301 ePd   15 25.50  -3.3X
CGN    12.57 293 eP    15 28.00  -1.0
IAS    12.57 308 eP    15 25.00  -4.0X
BUC1   12.59 294 iPd   15 30.00   0.8
VAN    12.60  96 ePc   15 26.00  -3.4X
DIM    12.61 283 iP    15 30.00   0.5
KDZ    12.77 281 iPd   15 32.00   0.3
ASH    12.79  96 P     15 29.00  -2.9X
MLR    12.95 299 iP    15 33.00  -1.2
PVL    13.00 298 iPd   15 36.00   1.3
PLD    13.27 293 iPc   15 42.00   3.8X
SHI    13.62 138 eP    15 41.00  -2.1
HLW    13.69 224 iP-   15 42.00  -1.8
MSR    13.87 300 ePd   15 37.00  -9.2X
OUR    13.87 276 ePc   15 46.60   0.4
MMB    13.99 281 iPc   15 49.00   1.2
NPS    14.03 254 eP    15 48.50   0.2
SRS    14.11 279 ePc   15 49.80   0.5
PAIG   14.15 274 ePc   15 50.20   0.3
MHI    14.19 101 iP+   15 49.90  -0.6
SOH    14.31 278 ePc   15 52.60   0.6
VTS    14.40 285 iPc   15 54.00   0.9
KHI    14.50 110 ePc   15 55.00   0.4
ATH    14.51 267 iPc   15 55.20   0.7
                 iS    18 48.00
THE    14.62 277 ePc   15 56.90   0.9
                 iS    18 43.20
KNT    14.63 279 ePc   15 56.80   0.6
VAY    14.87 280 eP    16 00.00   0.7
CJR    14.88 301 eP    15 57.80  -1.7
GRG    15.02 279 ePc   16 01.40   0.1
LIT    15.04 275 ePc   16 01.60   0.1
GZR    15.08 296 eP    16 00.00  -2.0
DEV    15.11 298 iPc   16 03.00   0.7
OBN    15.29 348 iPd   16 00.00  -4.6X
       1.2s  1000.00nm          6.0mb
     Z  18s   495.00um
     N  18s   390.00um
     E  18s   210.00um
                 iS    18 54.00
SKO    15.70 283 iPc   16 10.90   0.9
                 i     16 15.00
                 iS    19 08.50
MOS    15.70 350 iPd   16 07.00  -2.9X
       2.0s  6100.00nm          6.5mb
     Z  11s   157.00um          6.9MszX
                 eS    18 59.00
LVV    15.90 313 iPd   16 10.60  -1.9
     Z  14s   380.00um
                 iS    19 10.60
OHR    16.22 280 iPc   16 18.00   1.3
                 i     16 22.50
TIM    16.22 296 iPd   16 17.00   0.3
UZH    16.39 307 P     16 16.50  -2.3
MNK    16.77 329 P     16 24.00   0.5
VLS    16.85 270 eP    16 24.50  -0.2
     N  10s    54.00um
TTG    17.31 284 iPd   16 32.00   1.6
                 eS    19 37.00
JOS    17.43 305 iPd   16 31.00  -0.9
       2.0s   820.00nm          5.5mb
PSZ    17.65 303 iPd   16 35.00   0.2
SPC    17.85 307 eP    16 36.20  -1.2
BUD    18.10 301 iPd   16 41.20   1.0
KRA    18.37 309 iPd   16 40.80  -2.7
       1.2s   654.00nm          5.7mb
                 i     16 44.30
                 i     16 47.90
                 i     17 07.30
                 i     18 07.00
                 iS    19 56.00
LCI    18.45 278 eP    16 42.00  -2.5
SRO    18.65 302 iP    16 47.50   0.6
                 iS    20 18.30
HRB    18.74 302 eP    16 55.80   7.7X
                 iS    20 34.80
BRT    18.95 280 iPc   16 50.50  -0.1
SAM    19.02  84 P     16 49.80  -1.8
ARU    19.35  28 ePc   16 53.00  -2.3
       4.0s   *******nm          7.2mb X
     Z  19s   373.00um
     N  16s   273.00um
     E  18s   464.00um
                 eS    20 20.00
ZST    19.53 302 iP    16 57.90   0.4
                 iS    20 51.90
ROI    19.62 276 eP    16 58.50  -0.2
ORI    19.63 278 e(P)  16 58.00  -0.7
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30d 04h

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CSI     19.80 277 eP     16 59.50  -1.0
ACI     19.94 276 eP     17 00.00  -2.0
MMN     20.01 277 iPc    17 02.40  -0.2
CZI     20.02 275 eP     17 00.90  -1.9
VIE     20.02 302 eP-    17 03.00   0.3
VKA     20.06 302 ePd    17 02.50  -0.6
        4.0s   806.00nm          5.4mb X
SVE     20.41  30 iPc    17 04.80  -1.9
        5.0s  *******nm          7.1mb X
      Z  18s   618.00um          7.0Msz
      N  18s   298.00um
      E  18s   262.00um
                eS     20 42.00
SGO     20.42 279 eP     17 06.00  -0.9
TAS     20.53  78 iPc    17 08.00  -0.1
        1.8s  *******nm          6.9mb
      E  14s   240.00um
                eS     20 55.00
DSH     20.60  86 P      17 09.00   0.0
MSI     20.69 273 eP     17 08.00  -1.7
PUL     20.82 343 ePd    17 10.50  -0.4
        2.0s  7600.00nm          6.7mb
      Z  19s   420.00um          6.8Msz
      N  20s   320.00um
      E  19s   190.00um
                iPP    17 30.00
                eS     21 00.00
                iSSS   21 42.00
KSP     20.83 309 ePd    17 10.30  -0.8
        2.0s  1540.00nm          6.1mb
                i      17 11.50
                iS     20 58.30
LJU     20.88 295 iPd    17 12.30   0.6
                i      17 15.90
                i      17 23.00
                i(S)   21 13.10
DUI     20.92 283 eP     17 12.00  -0.1
CEY     20.93 294 iPd    17 12.80   0.6
                e(S)   21 09.00
TRI     21.39 294 iPc    17 16.30  -0.5
                iPP    17 49.60
                iS     21 13.00
KMR     21.44 308 iP-    17 17.80   0.4
KUL     21.51  88 iPc    17 19.20   1.0
        3.0s  *******nm          6.8mb
                iPcP   21 28.00
                iSSS   22 05.70
RBL     21.59 296 iPc    17 19.80   0.9
PRU     21.63 306 iPd    17 19.10  -0.1
        1.6s  1040.00nm          6.0mb
      Z  16s    95.00um          6.3MszX
                iS     21 20.00
AQU     21.65 285 eP     17 19.50   0.0
KBA     21.82 298 iPd    17 22.30   1.0
        1.1s   298.00nm          5.6mb
GIB     21.92 273 eP     17 21.00  -1.3
PRO     21.93 289 eP     17 24.60   2.4
KHC     22.02 303 iPd    17 23.50   0.3
        1.2s  1100.00nm          6.2mb
      Z  15s    82.00um          6.3MszX
      N  14s    57.20um
      E  14s    57.00um
                e      17 55.00
                S      21 38.60
MNS     22.18 285 eP     17 24.50  -0.2
RDP     22.21 283 eP     17 26.20   1.0
RMP     22.22 283 iPc    17 24.00  -1.1
                iPP    18 00.00
                iS     21 28.00
BHG     22.22 299 eP     17 25.50   0.4
BRG     22.25 308 iPd    17 24.90  -0.4
        1.5s   690.00nm          5.9mb
                iS     21 32.00
WET     22.47 303 iPd    17 27.70   0.0
                eS     21 38.00
PKK     22.56 337 iP     17 28.10  -0.3
CTI     22.88 295 eP     17 32.50   0.7
ANR     22.90  79 P      17 34.00   2.1
NUR     22.93 338 iP     17 32.20   0.2
        1.1s    93.60nm          5.2mb
      Z  19s   628.00um          7.1Msz
                i      17 37.50
                eS     21 32.00
CLL     22.94 308 iPd    17 32.90   0.7
        1.7s  2200.00nm          6.4mb
                iS     21 44.00
ERC     22.99 274 eP     17 31.50  -1.3
FIR     23.14 289 eP     17 36.50   2.4
                eS     21 44.00
BRN     23.18 311 iPd    17 35.50   1.1
                eS     21 48.00
FUR     23.35 308 iPd    17 37.40   1.2
                eS     21 58.00
HOF     23.37 305 iPd    17 37.10   0.7
        3.0s  6250.00nm          6.6mb
                eS     21 55.00
OGA     23.37 297 iPd    17 37.80   1.1
GAP     23.41 298 iPd    17 37.80   1.0
        1.6s  4530.00nm          6.8mb
MOX     23.61 306 iPd-   17 39.50   0.8
        2.0s  1180.00nm          6.1mb
      Z  16s    23.50um          5.7MszX
      N  15s    13.70um
      E  15s    15.30um
                iPP    18 08.00
                iS     22 00.00
GRF     23.64 304 iPd    17 37.40  -1.7
                eS     21 58.00
SAL     23.65 293 eP     17 41.00   1.9
KAF     23.83 341 iP     17 40.60  -0.1
OSS     23.96 296 ePd    17 43.40   1.0
KEF     24.23 340 iP     17 44.60   0.0
FRU     24.32  73 iPc    17 48.00   2.3
        2.3s  2790.00nm          6.4mb
      N  13s   305.00um
      E  20s   215.00um
                iS     22 07.00
SUF     24.39 342 iP     17 46.00  -0.1
        0.9s   470.00nm          6.1mb
VDL     24.42 295 ePd    17 48.00   1.2
SAX     24.55 297 ePd    17 48.40   0.2
VG1     24.65 292 eP     17 51.50   2.7
LLS     24.76 296 ePd    17 50.40   0.3
STU     24.80 301 iPd-   17 49.50  -0.8
        1.0s  1120.00nm          6.4mb
UPP     24.83 330 iP     17 50.00  -0.4
                iS     22 24.80
COP     24.86 318 iPd    17 51.00   0.3
        1.0s   600.00nm          6.2mb
                iS     21 53.00
CVF     24.97 286 eP     17 51.70  -0.2
        2.0s  3180.00nm          6.6mb
SLE     25.16 298 ePd    17 53.50  -0.3
ZUL     25.21 298 ePd    17 53.90  -0.3
KJF     25.36 345 iP-    17 55.00  -0.3
        0.5s   828.00nm          6.6mb
                i      18 03.00
                eS     22 12.00
HAM     25.39 312 iPd    17 58.10   2.3
BUH     25.43 300 eP     17 55.20  -1.1
ORO     25.43 293 eP     17 55.50  -0.9
MMK     25.45 294 ePd    17 56.30  -0.4
TNS     25.50 304 iPd    17 57.40   0.4
                eS     22 30.00
NRN     25.52  76 eP     17 59.10   1.6
                eS     22 30.00
DIX     25.83 294 ePd    18 00.00  -0.3
KSH     25.87  81 Pc     18 02.00   1.4
                iS     22 39.00
AAA     25.98  72 iPc    18 03.00   1.5
        8.0s    21.00nm          3.8mb X
                iS     22 37.00
CDF     26.03 300 eP     18 00.80  -1.1
        1.1s   253.00nm          5.8mb
TLG     26.30  72 iPc    18 04.10  -0.3
        2.4s  1030.00nm          6.0mb
BSF     26.31 298 eP     18 03.50  -1.1
        0.7s   295.00nm          6.0mb
BNS     26.43 305 iPd    18 06.50   1.1
        1.5s   730.00nm          6.1mb
                eS     22 47.00
FRF     26.49 289 eP     18 05.60  -0.5
        1.3s  1160.00nm          6.4mb
HFS     26.56 328 eP     18 06.20  -0.3
        0.8s   272.00nm          5.9mb
LMR     26.61 288 eP     18 06.60  -0.6
        1.4s   625.00nm          6.1mb
HAU     26.62 299 eP     18 06.20  -1.1
        1.3s   555.00nm          6.0mb
LRG     26.71 289 eP     18 07.60  -0.4
        1.3s   739.00nm          6.2mb
WTS     26.85 308 ePd    18 10.50   1.3
        1.2s   750.00nm          6.2mb
                e      18 25.00
                e      19 03.00
MUD     26.85 318 iPc    18 11.00   1.8
        1.3s   440.00nm          5.9mb
WLF     26.89 302 P      18 08.00  -1.7
                e      18 15.00
                S      22 53.00
WIT     27.11 309 eP     18 14.00   2.4
                e      18 59.00
CDR     27.11 289 eP     18 11.90   0.1
                e      18 13.00
                i      18 14.70
                i      21 34.80
                e      21 52.40
PRZ     27.13  73 eP     18 13.50   1.3
        1.4s   550.00nm          6.0mb
      Z  16s   150.00um          6.7MszX
      E  16s   248.00um
                eS     22 52.00
ENN     27.18 305 ePd    18 13.50   1.2
        1.1s   469.00nm          6.1mb
                e      18 32.00
APA     27.70 353 ePd    18 16.90   0.1
        1.5s   320.00nm          5.8mb
      Z  19s   198.00um          6.7Msz
                iS     22 53.00
DBN     27.86 307 iP-    18 19.00   0.6
      Z  14s   116.00um          6.6MszX
                iS     23 02.00
SSB     27.86 293 eP     18 18.50  -0.2
DOU     27.94 303 Pc     18 20.50   1.3
                e      18 26.00
                PcP    21 36.70
                S      23 07.00
KON     28.05 324 iP     18 19.20  -0.9
NB2     28.08 328 P      18 19.00  -1.4
        1.0s   576.00nm          6.3mb
UCC     28.17 305 Pd     18 21.50   0.2
                e      18 28.50
                S      23 28.00
LBF     28.20 296 eP     18 20.60  -1.1
        1.1s   329.00nm          6.0mb
LOR     28.28 297 eP     18 21.30  -1.1
        1.1s   272.00nm          5.9mb
SMF     28.30 296 eP     18 22.00  -0.5
        1.1s   575.00nm          6.2mb
SEM     28.30  56 ePc    18 23.20   0.7
        2.0s  1350.00nm          6.3mb
                eS     23 13.50
SOD     28.42 347 iP     18 23.40   0.1
SSF     28.52 297 eP     18 23.50  -1.0
        0.9s   169.00nm          5.8mb
AVF     28.63 296 eP     18 24.60  -0.9
        1.3s   460.00nm          6.1mb
ARO     28.70 179 iPd    18 27.50   1.1
MZF     29.18 295 eP     18 29.70  -0.8
        1.2s   572.00nm          6.2mb
TCF     29.44 295 eP     18 32.20  -0.6
        1.2s   369.00nm          6.0mb
CAF     29.64 292 eP     18 33.90  -0.7
        1.0s   209.00nm          5.9mb
LSF     29.91 295 eP     18 35.90  -1.1
        1.3s   275.00nm          5.9mb
RJF     29.99 293 eP     18 37.40  -0.3
        1.8s   911.00nm          6.3mb
LPO     30.29 292 eP     18 39.60  -0.7
        1.1s   265.00nm          6.0mb
BER     30.29 324 iP     18 41.00   0.8
KEV     30.54 350 iP     18 42.40   0.1
        1.2s   197.00nm          5.8mb
                i      18 47.00
                eS     23 40.00
LFF     30.58 293 eP     18 42.20  -0.7
        1.1s   284.00nm          6.0mb
MLS     30.60 289 iP     18 41.30  -1.8
ABA     30.63 276 iP     18 44.50   1.1
NVS     30.81  48 iPc    18 44.20  -0.6
        2.8s  *******nm          7.5mb X
                iS     23 49.00
NDI     30.94 101 iPc    18 46.00  -0.3
        1.5s  1060.00nm          6.5mb
      Z  20s    88.70um          6.4Msz
      N  20s    83.30um
      E  20s    85.10um
                iS     23 56.00
LDF     30.95 300 eP     18 45.40  -0.7
MFF     31.05 296 eP     18 45.50  -1.5
        1.1s   265.00nm          6.0mb
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EPF    31.12 289 eP    18 45.60  -2.1
       0.9s   118.00nm          5.7mb
FLN    31.19 300 eP    18 47.20  -1.0
AAE    31.32 186 eP    18 50.70   0.7
EBR    31.44 285 eP    18 53.00   2.5
                e     22 56.00
                e     23 32.00
                eS    24 04.00
GRR    31.45 299 eP    18 49.20  -1.3
       1.2s   720.00nm          6.4mb
LPF    31.58 299 eP    18 50.20  -1.4
       1.1s   265.00nm          6.0mb
JAU    31.63 289 (P)   18 52.70   0.3
ATE    31.87 289 (P)   18 53.70  -0.5
ELT    32.31  51 iPc   18 56.60  -1.3
       2.1s  1330.00nm          6.5mb
                iS    24 14.00
ALI    32.81 281 iP+   19 03.00   0.5
                iPP   20 09.00
                iS    24 07.00
RLA    32.91 275 iP    19 05.00   1.7
EKA    33.26 312 Pc    19 06.50   0.3
       0.8s   124.00nm          5.9mb
LGR    33.29 289 iPd   19 07.50   0.9
                iPP   20 18.20
                iS    24 35.00
WMO    33.65  69 iPc   19 10.50   0.7
                S     24 36.00
                PcS   25 33.00
ALM    34.77 279 iPd   19 19.30  -0.2
       2.2s    32.20nm          4.9mb X
                iS    24 47.10
POO    34.83 119 iPc   19 21.80   1.6
       1.0s   200.00nm          6.0mb
ETA    34.85 307 eP    19 19.50  -0.5
       1.1s   200.00nm          5.9mb
ECP    34.95 306 eP    19 20.10  -0.7
       0.7s   125.00nm          5.9mb
TOL    35.04 285 iPd   19 20.50  -1.2
       6.0s     8.00nm          3.8mb X
                i     19 24.00
                iPP   20 31.00
                ePPP  20 58.00
                iPcP  21 54.00
                i     23 14.00
                iS    24 55.00
                (PcS) 25 27.00
                iSS   27 32.00
DLE    35.07 308 eP    19 20.80  -1.0
ECB    35.20 307 eP    19 22.70  -0.2
       1.1s    85.00nm          5.6mb
DMU    35.31 309 eP    19 23.10  -0.8
       1.0s   180.00nm          5.9mb
DCN    35.51 308 iPc   19 26.30   0.7
       1.3s   500.00nm          6.3mb
                iPg   19 30.70
MAL    36.29 280 iPd   19 31.50  -0.8
                i     20 19.00
                iPP   21 00.00
                iS    24 56.00
UER    37.06  55 iPc   19 39.00   0.4
       2.0s  1090.00nm          6.3mb
                iS    25 19.50
VAL    37.34 306 iP    19 41.70   0.7
                iS    25 30.00
DMN    37.46  96 iPc   19 42.80   0.2
KKN    37.50  96 iPc   19 42.60  -0.3
NRI    37.71  25 iPc   19 43.80   0.0
       2.7s  2040.00nm          6.5mb
     N  19s   113.00um
                iPPP  21 38.00
                iPcP  22 02.00
                iS    25 32.00
                eSS   28 10.00
PKI    37.71  96 iPc   19 44.40  -0.4
       1.4s  1530.00nm          6.6mb
SFS    37.73 280 iPc   19 46.00   1.5
                i     19 53.00
                iPP   20 22.00
                i     21 20.00
                i     22 24.00
                iS    25 22.00
                iSS   28 31.00
IFR    38.05 275 iPc   19 47.50   0.1
HYB    38.80 115 iPc   19 53.00  -0.7
       1.0s   470.00nm          6.2mb
                e     20 14.50
                e     20 44.00
                eS    25 40.00
LIS    39.16 285 eP    19 59.30   2.9
AVE    39.88 276 iP    20 02.50   0.1
KBS    40.51 351 iP    20 08.00   1.0
                eS    31 43.00
GBA    40.76 121 P     20 09.00  -0.8
KHE    40.83   4 eP    20 11.00   1.3
       2.0s   810.00nm          6.1mb
                iPP   21 46.00
                ePPP  22 20.00
                iS    26 26.00
LSA    41.04  89 eP    20 13.40   0.8
MOY    41.33  54 eP    20 10.50  -3.6X
       2.0s  1120.00nm          6.2mb
BNG    41.60 217 iPd   20 14.80  -1.9
       1.2s    45.00nm          5.1mb X
NAI    41.70 188 iPd   20 22.80   5.1X
       1.0s   100.00nm          5.5mb
AKU    41.94 327 iPd   20 21.70   2.8
       1.9s  1410.00nm          6.4mb
                i     22 12.40
ZAK    42.97  55 iPc   20 28.50   0.9
       2.2s   960.00nm          6.1mb
     N  16s   122.00um
     E  18s   235.00um
                ePP   22 11.00
                eS    26 57.00
                eSS   29 58.00
IRK    43.27  52 iPc   20 29.00  -1.0
       2.0s   600.00nm          6.0mb
     Z  16s   175.00um          7.1MszX
     N  16s   101.00um
     E  17s   115.00um
                ePcP  22 19.00
                ePPP  22 48.00
                eS    26 52.00
KOD    43.29 124 eP    20 32.00   1.1
REY    43.45 325 iP    20 36.80   5.6X
                i     22 23.60
GTA    43.57  72 iPc   20 33.20   0.5
                sP    20 55.50
                PP    22 17.00
                S     27 03.50
                SS    30 16.00
DAG    44.53 343 iPc   20 38.30  -1.6
       1.1s   109.00nm          5.6mb
                i     22 26.00
                i     27 17.00
LZH    47.79  74 iPc+  21 07.00   0.5
       2.5s  3120.00nm          6.9mb
     N  11s    69.70um
                pP    21 23.00  62kmX
                sP    21 30.00
                PP    22 59.00
                ePPP  24 12.00
                PcS   26 29.00
                iS    28 06.00
                SS    31 42.10
BOD    47.86  43 eP    21 03.60  -2.8
       1.5s   730.00nm          6.5mb
TEN    48.83 275 iPc   21 16.80   2.4
                iPP   23 11.00
                iS    28 24.00
CD2    50.05  80 iPc   21 24.00   0.2
                eS    28 37.00
BTO    50.41  66 iPc   21 26.60   0.2
                PP    23 24.00
                S     28 44.00
TIK    51.29  24 ePc   21 31.00  -1.6
       2.2s  1260.00nm          6.5mb
                ePP   23 32.00
                eS    28 52.00
                eSPP  29 12.00
                eSS   32 31.00
HHC    51.38  65 iPc   21 34.00   0.1
                S     28 52.00
TUP    51.82  47 ePc   21 37.80   1.0
       2.4s   820.00nm          6.2mb
ALE    52.13 351 eP    21 37.70  -1.2
       0.7s    53.00nm          5.6mb
KMI    52.22  87 iPc+  21 39.50  -1.0
       9.0s    11.60nm          3.8mb X
     E  17s    56.20um
                pP    21 52.00  45kmX
                PcP   22 50.00
                PP    23 43.00
                PPP   24 51.00
                S     29 00.00
                SS    32 46.00
                SSS   34 26.00
XAN    52.43  74 Pc    21 41.60  -0.2
                sP    22 06.00
                S     29 07.00
CHG    52.89  96 iPc+  21 44.00  -1.3
       1.0s   120.00nm          5.8mb
                eS    29 12.00
TIY    53.32  69 iPc   21 48.00  -0.3
                pP    22 06.00  70kmX
                S     29 17.00
KIC    53.84 244 iPc   21 50.10  -2.2
                S     29 37.00
BDT    53.88  98 iPc   21 51.50  -1.0
       1.0s   345.00nm          6.3mb
YAK    54.27  35 iPc   21 52.70  -2.2
       1.3s   480.00nm          6.4mb
                iPcP  23 00.80
                iPP   24 01.80
                iPPP  25 01.40
                iS    29 29.80
                eSPP  29 46.00
                iScS  31 37.40
                iSSS  35 00.20
GYA    54.50  84 P     21 56.00  -1.2
                PP    24 06.00
                PPP   25 15.00
                S     29 37.00
GDH    54.88 334 ePd   21 59.00  -0.3
       1.0s   250.00nm          6.2mb
                iS    29 45.00
BJI    54.92  64 eP    22 00.00   0.1
                pP    22 04.00  13kmX
                PP    24 06.00
                eS    29 43.00
                PS    29 53.00
                SS    33 30.00
KHT    55.08 101 eP    22 02.00   0.6
PCT    57.27  99 eP    22 17.00  -0.1
       1.2s   213.00nm          6.0mb
NNT    57.33 102 eP    22 21.20   3.7X
TIA    57.34  68 Pc    22 16.50  -0.9
                S     29 10.50
MTD    57.67 192 eP    22 19.00  -0.9
                ipP   22 36.00  65kmX
KRI    58.06 194 eP    22 20.00  -2.6
                ipP   22 38.00  69kmX
WHN    58.15  75 iPc   22 22.50  -0.6
                PP    24 35.00
                S     30 24.00
SNY    59.09  59 iPc   22 28.50  -1.1
                PP    24 51.00
                iS    30 39.00
AVY    59.18 174 ePc   22 30.00  -0.5
DL2    59.18  63 iPc   22 28.00  -2.2
                S     30 39.00
CN2    59.37  57 iPc   22 30.00  -1.5
                S     30 42.00
NJ2    60.66  71 iPc   22 39.50  -1.0
                PP    24 52.00
                PPP   26 23.00
                S     30 49.00
GZH    61.41  83 iPc   22 45.00  -0.7
                S     31 08.00
BUL    61.48 195 iPc   22 45.00  -1.1
                epP   23 02.00  64kmX
                iPcP  23 31.00
                iS    31 14.00
SNG    61.52 106 iPc+  22 44.00  -2.5
       1.6s   667.00nm          6.5mb
     Z  20s    32.60um          6.5Msz
     N  20s    34.40um
     E  20s    37.60um
                iS    31 29.00
MDJ    61.59  54 eP    22 47.00   0.4
                S     31 07.00
HKC    62.49  83 iP    22 52.00  -0.9
                iS    31 24.00
FRB    62.79 332 ePc   22 53.00  -1.3
       1.0s   405.00nm          6.5mb
SSE    62.86  71 iPc+  22 54.00  -1.2
       1.0s   433.00nm          6.6mb
     N  15s    20.40um
     E  15s    49.90um
                pP    23 07.00  46kmX
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30d 04h

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                 sP    23 12.50
                 iS    31 16.00
                 PS    31 41.50
                 ScS   32 44.00
MBC   63.10 355 eP     22 55.50  -0.7
      1.1s   81.00nm          5.8mb
SEY   63.12  29 iPc    22 56.60   0.1
      2.5s 4910.00nm          7.2mb X
                 ePP   25 13.50
                 iS    31 27.60
                 ePPS  31 54.60
IPM   63.57 108 ePd    22 57.20  -2.9X
      1.0s  175.00nm          6.2mb
                 e     25 05.30
VLA   63.78  55 iPd    22 58.00  -3.2X
                 iPP   25 23.00
                 iPPP  26 48.00
                 iS    31 34.00
                 iPPS  32 04.00
MGD   64.18  32 iPc    23 11.60   8.1X
      1.3s  340.00nm          6.3mb
    Z  19s  314.00um          7.5Msz
    N  19s   32.00um
    E  19s  299.00um
                 ePP   25 23.00
                 iS    31 34.00
                 iScS  32 58.00
QZH   64.33  78 iPc    23 04.00  -0.9
                 sP    23 28.00
STJ   64.52 312 eP     23 08.20   2.3
ANP   66.37  76 iP+    23 20.00   1.8
                 iS    32 12.00
PPI   66.59 112 ePd    23 19.00  -0.6
      1.5s  300.00nm          6.2mb
KGM   66.98 108 ePd    23 21.70  -0.4
SLR   66.99 194 iPc-   23 21.60  -0.4
      1.0s  100.00nm          5.9mb
    Z  17s  104.00um          7.1MszX
PRE   67.02 194 e(P)   23 22.00  -0.3
      0.8s  430.00nm          6.6mb
KSR   67.38 195 iPc    23 23.50  -1.0
BPI   67.46 194 iPc    23 23.70  -1.4
SCH   67.54 324 ePc    23 24.90  -0.2
      1.2s  222.00nm          6.2mb
EVA   67.60 193 eP     23 25.70  -0.3
      1.5s  380.00nm          6.3mb
ILT   67.79  16 iPd    23 26.00  -0.4
      2.6s 1900.00nm          6.8mb
    Z  20s  145.00um          7.2Msz
    N  20s   84.00um
    E  20s   51.00um
                 ePcP  23 50.00
                 ePP   25 56.00
                 ePPP  27 30.00
YSS   68.01  47 iPc    23 29.00   0.8
      6.0s  *******nm          7.2mb X
                 ePcP  23 56.40
                 ePPP  27 42.00
                 iS    32 32.00
                 ePPS  33 05.00
                 eScS  33 26.00
                 eSS   36 58.00
JOZ   68.08 198 iPc    23 25.60  -3.1X
NGS   68.11  65 eP     23 29.00   0.0
                 eS    32 34.00
SWZ   68.97 196 iPd    23 33.50  -0.9
      1.0s  130.00nm          6.0mb
SHK   69.01  62 ePc    23 33.20  -1.4
SAP   69.55  51 eP     23 40.00   2.3
                 eS    32 52.00
SEK   69.63 194 iPc    23 38.50   0.1
KIM   70.61 196 iPc    23 43.00  -1.4
      0.6s  207.00nm          6.4mb
BLF   70.67 195 iPc    24 02.50  17.8X
OBI   70.75  50 eP     23 48.00   3.0X
                 e     56 08.00
BAG   70.83  85 eP+    23 44.00  -2.1
      1.0s  636.00nm          6.4mb
CVP   70.99  83 ePc    23 46.00  -0.8
MAT   71.49  58 iPc    23 48.00  -1.7
      1.2s  156.00nm          6.0mb
                 eS    33 10.00
INK   71.65 358 eP     23 49.50  -0.5
      1.5s  176.00nm          5.9mb
KUR   71.94  46 iPd    23 55.50   3.4X
      6.0s  *******nm          7.0mb X
    Z  15s   46.70um          6.9MszX
    N  18s  151.00um
    E  18s  178.00um
                 ePPP  28 19.00
                 eS    33 14.50
                 eSP   33 40.00
MIY   71.99  53 eP     23 34.00 -18.5X
PET   72.07  35 eP     23 52.00  -0.8
      5.0s 4150.00nm          6.7mb X
                 ePP   26 36.00
                 ePPP  28 20.00
                 eS    33 16.00
                 eSS   38 00.00
HVD   72.26 195 iPd    23 56.70   2.5
      1.5s  190.00nm          5.9mb
QCP   72.29  86 iP     23 46.00  -8.6X
SKR   72.54  38 eP     23 57.60   2.0
    Z  18s   72.40um          7.0Msz
    N  18s   69.70um
    E  18s   92.90um
                 ePP   26 44.00
                 ePPP  28 29.00
                 eS    33 24.00
                 eSS   37 55.00
PGP   72.89  87 eP     23 53.00  -5.2X
IMA   73.22   7 P      23 59.80   0.3
PPR   73.51  91 eP     24 03.00   1.2
KKM   73.96  96 ePc    24 04.80   0.3
      1.2s   38.80nm          5.7mb
GRM   74.69 193 iP-    24 09.20   1.0
      1.4s  256.00nm          6.1mb
    Z  22s   24.10um          6.4Msz
COL   74.81   4 eP     24 08.00  -0.6
    Z  19s   37.80um          6.7Msz
                 eS    33 49.00
FBA   74.81   4 P      24 08.70   0.1
SUR   75.00 199 iPd    24 10.40   0.2
      0.7s  100.00nm          6.0mb
LGP   75.23  85 ePc    24 13.00   1.3
      1.0s  166.00nm          6.0mb
YKC   75.82 349 eP     24 13.50  -0.9
      1.1s   45.00nm          5.4mb
YKA   75.82 349 eP     24 15.40   1.0
RSNT  75.84 349 iP     24 14.00  -0.4
      2.0s 1010.00nm          6.5mb
TTA   76.05   8 P      24 16.40   0.6
TUH   76.29 200 eP     24 17.00  -0.3
CER   76.32 200 iPd    24 17.00  -0.5
      1.3s   80.00nm          5.6mb
BNH   76.47 318 iP     24 19.80   1.4
MNT   77.03 319 iPc    24 22.40   1.0
TOA   77.69   4 (P)    24 26.00   1.2
SVW   77.87   9 P      24 26.00   0.1
PMR   78.01   5 P      24 26.60   0.1
    Z  20s   40.00um          6.7Msz
OTT   78.13 320 iPc    24 29.00   1.5
      1.2s   94.00nm          5.7mb
RSNY  78.16 319 iP     24 28.60   0.9
      2.0s  472.00nm          6.2mb
SMY   78.40  28 P      24 29.00   0.2
    Z  19s  112.00um          7.2Msz
CGP   78.90  88 ePd    24 31.00  -1.2
      1.0s   95.00nm          5.8mb
PCA   79.90   1 P      24 38.00   1.1
DAV   80.44  89 iP+    24 40.00  -0.5
FFC   80.46 340 eP     24 39.00  -0.9
      1.0s   45.00nm          5.4mb
RSON  81.32 333 iP     24 45.30   0.8
      2.0s  377.00nm          6.1mb
KDC   81.51   8 P      24 47.00   1.7
LHC   81.73 330 eP     24 46.50  -0.2
      0.9s  103.00nm          5.9mb
ELF   82.45 322 P      24 50.20  -0.4
LDN   82.51 322 P      24 50.20  -0.7
DLA   82.83 322 P      24 51.40  -1.1
SIT   82.95 359 P      24 54.10   1.3
MNI   83.48  94 eP     25 00.00   3.7X
EDM   84.44 345 eP     25 00.00  -0.6
MRG   84.50 319 iPc    25 02.00   0.9
SES   86.64 343 ePc    25 11.20  -0.4
      1.4s  545.00nm          6.6mb
ITR   88.51 257 eP     25 20.70  -0.3
                 i     25 24.60
                 i     28 50.70
NEW   89.89 346 eP     25 27.00  -0.2
    Z  20s   60.00um          7.0Msz
FDF   90.42 290 iPd    25 35.00   4.9X
                 S     36 59.00
RSCP  90.44 320 eP     25 30.40   0.4
      2.0s  405.00nm          6.4mb
    Z  20s   70.60um          7.1Msz
PGC   90.48 351 eP     25 30.20   0.4
RSSD  90.58 336 eP     25 32.30   1.6
      2.0s  307.00nm          6.2mb
SOB1  90.65 259 eP     25 32.00   1.0
                 e     26 15.40
                 e     29 06.60
SXM   90.67 342 eP     25 30.30  -0.7
GUMO  90.74  72 eP     25 29.00  -2.5
                 eS    36 02.00
FVM   90.78 324 eP     25 30.50  -0.9
      2.0s  124.00nm          5.9mb
GUA   90.81  72 eP     25 30.00  -1.8
    Z  19s   26.40um          6.7Msz
LRM   91.26 343 eP     25 34.00   0.1
SJG   91.68 295 eP     25 36.00   0.2
      1.0s   75.00nm          6.0mb
    Z  22s   25.90um          6.6Msz
TRN   93.32 287 eP     25 45.40   2.0
      1.3s 1810.00nm          7.3mb X
BDW   93.41 340 eP     25 44.00   0.2
      2.0s  164.00nm          6.1mb
TMI   93.51 341 e(P)   25 50.00   5.8X
RLO   94.30 327 eP     25 47.20  -0.4
GBO   94.63 326 e(P)   25 50.70   1.5
TUL   94.84 327 eP+    25 50.00  -0.1
      1.0s   49.60nm          5.9mb
    Z  20s   61.30um          7.1Msz
GLD   94.92 335 e(P)   25 53.00   2.3
      2.0s  145.00nm          6.1mb
    Z  20s  112.00um          7.3Msz
GOL   95.01 335 e(P)   25 52.00   0.8
      2.0s   63.60nm          5.7mb
ATB   95.46 270 eP     25 55.50   2.3
BHO   95.75 325 eP     25 55.90   1.6
      1.6s   83.70nm          5.9mb
CAR   97.42 290 eP     26 07.00   4.7X
    Z  20s    9.04um          6.3Msz
    N  20s   11.90um
    E  20s    6.56um
                 ePP   29 56.00
KNA   97.49 104 eP     26 03.00   0.8
EUR   98.09 343 iP     26 07.00   1.8
FHC   98.26 349 e(P)   26 01.20  -4.5X
WDC   98.27 348 eP     26 01.00  -4.6X
                 ePKKP 43 07.00
MIN   98.35 348 e(P)   26 01.00  -5.2X
ALQ   99.70 334 eP     26 11.50  -1.0
      2.0s   44.10nm          5.7mb
    Z  20s   47.50um          7.0Msz
PRN   99.86 342 eP     26 12.00  -1.1
BAO  100.06 258 Pdiff  26 16.00   1.8
JAS  100.48 346 ePdiff26 11.00  -4.5X
                 ePKKP 43 00.00
ATX  100.53 326 ePdiff26 30.00  14.1X
BKS  100.86 347 e(Pdif26 21.00   3.8X
    Z  20s   45.00um          7.0Msz
    N  20s   38.00um
    E  20s   14.00um
                 eSKS  37 07.00
                 eSSS  46 48.00
RDJ  101.11 250 ePdiff26 20.40   1.8
JCT  101.21 327 ePdiff26 25.20   6.3X
    Z  20s   46.10um          7.0Msz
NOP  101.34 342 e(Pdif26 23.50   4.0X
GLA  103.94 340 e(Pdif26 34.00   2.9X
WB2  104.25 104 ePdiff26 33.70   1.1
                 e     29 38.70
PMG  107.45  88 ePKP   31 10.00  14.4X
RAB  107.92  80 e(Pdif26 48.00  -1.1
RAB  107.92  80 ePKP   31 05.20   8.6X
CTA  113.27  97 ePKP   31 08.00   1.5
                 i     34 52.00
                 i     37 53.00
                 i     41 26.00
CTAO 113.27  97 ePKP   31 07.00   0.5
      1.0s   20.00nm
ZOBO 115.73 270 ePKP   31 11.50  -0.6
                 e     31 16.00
                 e     31 42.00
STK  116.45 110 ePKP   31 12.00  -0.3
ARE  118.42 272 ePKP   31 18.00   1.2
CAN  123.51 110 ePKP   31 26.70   0.9
WAM  123.84 111 ePKP   31 27.30   1.0
MDZ  125.38 254 e(PKP)31 30.40   0.9
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FCH    126.66 255 iPKPd 31 34.20   1.9
PEL    126.86 255 iPKPc 31 34.40   2.0
ROCH   127.02 255 iPKPd 31 34.50   1.6
CHCH   127.21 254 iPKP  31 36.00   3.0X
KOU    127.30  86 iPKPc 31 34.40   1.0
LNV    127.78 255 iPKP  31 34.10   0.2
DRV    129.27 149 ePKP  31 37.00   1.2
NOU    129.95  86 iPKPc 31 42.90   4.5X
SPA    130.15 180 ePKPd 31 37.00  -0.6
         1.0s    35.00nm
       Z  20s    39.70um          7.1Msz
                e      44 53.80
SBA    136.22 165 ePKP  31 45.50  -3.3X
AFI    140.34  58 e(PKP)32 04.00   5.8X
                e      58 16.00
                e      03 44.00
KRP    144.07 102 PKP   32 02.40  -1.6
                i      32 04.60
                e      32 27.50
TCW    144.09 107 PKP   32 01.80  -2.1
WEL    144.46 107 PKP   31 58.00  -6.5X
       Z  22s    35.60um          7.1Msz
       N  22s    13.30um
       E  21s    21.50um
                e      32 25.00
GNZ    146.15 102 ePKP  32 08.70   1.2
PMO    153.28  22 ePKP  32 25.00   6.1X
         1.4s   105.00nm
TVO    155.45  27 ePKP  32 28.00   6.1X
         1.4s   195.00nm
       S.D. = 1.2  on 406 of 463 obs.

&  NOV  16, 1983  16h 13m 00.07s
   19.430 N            155.454 W
   DEPTH =  12.0km  (geophysicist)
   6.4mb (101 obs.)  6.7Msz ( 41 obs.)
 HAWAII                              (613)
      <HVO-P>. Six people injured and
      considerable damage (VIII) in
      parts of Kapapala, Hawaii
      Volcanoes National Park,
      Volcano, Kau and Puna districts
      and Hilo. Landslides and
      rockfalls occurred, telephone
      and electrical service disrupted
      and water mains broken in
      several areas of the island.
      Total damage estimated at 6 to
      6.5 million dollars. Also felt
      on Maui, Oahu and Kauai.

AIN      0.06 186 iPc   13 02.56  -0.2
MLH      0.09  43 iPc   13 02.90  -0.3
MLX      0.11  74 iPd   13 03.38   0.1
DES      0.11 146 iPc   13 03.03  -0.2
CPK      0.12 106 iPd   13 03.40   0.0
MWH      0.15 293 iPd   13 03.90   0.0
NPH      0.16  95 iPd   13 03.78  -0.3
OUT      0.17 104 iPd   13 03.92  -0.2
RIM      0.17 101 iPd   13 04.00  -0.2
KNH      0.18 121 iPd   13 04.26  -0.1
AHA      0.19 108 iPd   13 04.30  -0.2
HLP      0.19 134 iPc   13 04.48   0.0
ESR      0.20  95 iPd   13 04.46  -0.3
PUH      0.23 103 iPd   13 04.73  -0.5
KHU      0.24 221 iPc   13 04.83  -0.6
PWH      0.26 124 iPd   13 05.52  -0.2
PPL      0.27 182 iPc   13 05.52  -0.4
MKA      0.28 103 iPd   13 05.67  -0.5
KAE      0.33 115 iPd   13 06.68  -0.4
HPU      0.35 359 iPc   13 07.19  -0.4
HPO      0.35 196 P     13 04.60  -2.8
MVH      0.38  79 iPd   13 07.63  -0.3
WHA      0.39 104 iPd   13 07.47  -0.8
KKH      0.57 294 P     13 10.70  -0.8
HON      3.05 309 eP    13 44.00  -4.9
OPA      3.29 314 eP    13 44.30  -8.1
                i      13 49.80
BKS     34.21  50 eP    19 49.20   1.5
         1.2s   290.00nm          6.1mb
                ePcP   22 30.20
                eS     25 19.00
                e      27 00.00
FHC     34.28  45 eP    19 52.80   4.6
SAO     34.38  53 eP    19 49.40   0.2
                PcP    22 30.00
MHC     34.45  52 eP    19 50.90   1.1
                ePcP   22 31.00
ARN     34.53  52 eP    19 51.40   0.9
SLD     34.66  52 eP    19 53.50   1.9
RMT     34.76  47 eP    19 54.00   1.7
PRI     34.76  54 ePd   19 53.80   1.2
                ePcP   22 31.00
SCCM    34.77  56 eP    19 53.70   1.1
PHAM    34.87  55 eP    19 55.10   1.8
PMO     35.02 167 iP    19 56.00   1.4
         1.6s  1900.00nm          6.7mb
NKI     35.03 346 eP    19 54.90   0.5
TPT     35.06 167 iP    19 56.30   1.3
         1.6s  1900.00nm          6.7mb
WDC     35.15  46 eP    19 57.00   1.4
                e      20 25.00
                ePcP   22 32.00
VAH     35.30 167 iP    19 58.20   1.1
         1.6s  1330.00nm          6.6mb
RUV     35.31 166 iP    19 58.30   1.2
         1.6s  1330.00nm          6.6mb
JAS     35.56  51 iPd   20 00.50   1.3
                i      20 28.40
                ePcP   22 33.20
MIN     35.68  47 eP    20 01.50   1.1
LGBM    35.73  45 eP    20 04.00   3.1
FRI     35.77  53 ePd   20 01.80   0.9
SDN     36.05 355 eP    20 04.40   1.3
PAS     36.15  58 iPd   20 06.00   1.8
         1.2s   300.00nm          6.0mb
                iPP    21 30.00
                iPcP   22 37.00
MWC     36.26  58 eP    20 06.00   0.6
ISA     36.31  56 eP    20 06.50   0.9
WKTM    36.37  56 eP    20 06.50   0.3
ADK     36.41 338 e(P)  20 05.30  -0.9
                e      20 08.80
SBB     36.56  58 iPd   20 08.30   0.5
COR     36.65  40 iPd   20 14.00   5.7
RVR     36.75  59 eP    20 09.00  -0.3
AFI     36.82 207 eP    20 12.00   2.0
                e(PPP)21 36.00
                e(S)   25 40.00
CWC     36.84  55 eP    20 10.00  -0.2
                e      20 12.00
                e      29 17.00
VPEM    36.90  56 eP    20 11.60   0.9
PLM     37.03  60 eP    20 12.00   0.2
                e      20 14.00
BAR     37.05  61 eP    20 12.00   0.2
AFR     37.16 171 iP    20 14.70   2.0
         1.6s   950.00nm          6.3mb
PPN     37.20 170 iP    20 15.00   1.9
PPT     37.22 171 iP    20 15.30   2.0
         1.6s   950.00nm          6.3mb
PAE     37.31 171 iP    20 15.90   1.9
         1.6s   930.00nm          6.3mb
TVO     37.48 170 iP    20 17.40   1.9
         1.6s  2080.00nm          6.7mb
GSC     37.52  57 eP    20 16.00   0.1
BFW     37.76  37 eP    20 20.80   3.1
PHC     38.28  29 iPd   20 26.70   4.8
         1.7s  2090.00nm          6.6mb
GMW     38.61  36 eP    20 26.70   2.0
GLA     38.64  61 eP    20 26.70   1.4
BMN     38.79  49 ePd   20 27.70   1.2
PGC     38.90  34 eP    20 30.40   3.3
SIT     40.44  17 eP    20 41.10   1.4
         1.2s   439.39nm          6.0mb
RAR     40.61 186 iP    20 44.00   2.5
SMY     40.77 332 eP    20 44.30   1.8
       Z  20s    95.00um          6.6Msz
BKU     41.21  53 eP    20 47.50   1.0
PNT     41.35  35 eP    20 49.00   1.7
         1.1s   686.00nm          6.3mb
SVW     41.64 360 iPc   20 50.90   1.4
DUG     41.90  51 ePd   20 53.80   1.7
MSU     41.92  54 iPc   20 54.00   1.5
GCA     42.01  56 eP    20 55.10   2.0
PCA     42.05  11 eP    20 54.80   1.7
NEW     42.21  38 eP    20 55.00   0.5
PMR     42.36   4 eP    20 55.80   0.4
         1.5s   167.00nm          5.5mb
       Z  20s   120.00um          6.8Msz
RMU     42.52  56 eP    20 58.50   1.2
HPI     42.83  46 iP    21 01.90   2.0
TBI     42.92 172 iP    21 04.80   4.4
         1.6s  1710.00nm          6.5mb
CLX     43.36  39 iPc   21 04.80   0.8
LDM     43.36  39 iPc   21 04.70   0.8
TTA     43.47 360 iPc   21 04.60   0.1
TMI     43.50  47 eP    21 07.40   2.1
BUT     44.03  43 eP    21 11.40   1.9
LRM     44.03  43 eP    21 10.20   0.6
IMW     44.36  46 eP    21 13.20   0.9
BDW     44.97  48 eP    21 17.00  -0.2
         1.3s   392.00nm          6.2mb
SVA     45.26 216 ePc   21 22.50   3.1
                ePP    21 29.00  22kmX
NDF     45.54 217 eP    21 27.00   5.4
ANM     45.60 354 eP    21 22.70   1.2
COL     45.73   5 eP    21 22.00  -0.6
       Z  18s    95.50um          6.8Msz
                eS     28 10.00
FBA     45.73   5 eP    21 23.10   0.5
ALQ     45.80  60 ePc   21 24.00   0.2
       Z  18s    61.90um          6.6Msz
IMA     46.63   1 iPc   21 29.30  -0.5
SES     46.72  38 eP    21 31.00   0.3
         1.6s   179.00nm          5.9mb
EDM     46.75  34 iPd   21 30.50  -0.3
         1.5s   310.00nm          6.1mb
RKT     46.78 154 iP    21 33.40   2.1
         1.6s  1710.00nm          6.9mb
GOL     47.34  54 eP    21 36.00  -0.1
         1.2s  2830.00nm          7.2mb
       Z  20s    62.50um          6.6Msz
GLD     47.47  54 eP    21 39.10   2.2
         1.5s  1970.00nm          7.0mb
       Z  20s    95.00um          6.8Msz
PET     48.68 325 iPc   21 47.50   1.7
         2.0s  1600.00nm          6.7mb
       Z  18s    50.00um          6.5Msz
       N  17s    27.50um
       E  17s    53.00um
                eSP    28 53.00
                eScS   31 38.00
SKR     49.20 321 iPc   21 50.80   0.9
         0.8s   480.00nm          6.6mb
       Z  1[illegible]   40.50um          6.5MszX
       N  17s    21.30um
       E  16s    41.80um
                ePP    23 44.40
                ePPP   24 31.00
                iS     29 00.00
RSSD    49.21  48 eP    21 49.30  -1.1
         1.5s   735.00nm          6.5mb
ILT     50.64 349 iPc   22 00.50  -0.2
         1.6s  1100.00nm          6.6mb
       Z  18s    95.00um          6.9Msz
       N  18s    63.00um
                iPP    23 56.00
                ePPP   24 48.00
                iS     29 12.00
                eScS   31 48.00
INK     50.76  10 eP    22 01.00  -0.6
         0.6s   203.00nm          6.2mb
JCT     51.20  66 eP    22 04.00  -1.6
         1.0s   180.00nm          6.0mb
       Z  20s    92.20um          6.8Msz
PVC     51.29 226 iPc   22 12.00   5.7
RSNT    51.36  23 eP    22 05.30  -1.0
         1.5s  1510.00nm          6.7mb
YKA     51.37  23 eP    22 06.70   0.4
YKC     51.41  23 ePd   22 06.20  -0.4
         0.[illegible]s   116.00nm          6.3mb
ACO     5[illegible].87  58 eP    22 10.80   0.2
BRW     5[illegible].88 359 e(P)  22 10.50   0.4
SVO     [illegible]2.42 241 eP    22 18.00   3.0
RRO     [illegible]2.45  60 eP    22 18.40   3.4
         1.8s  1390.00nm          6.6mb
HNR     52.47 241 ePc   22 18.00   2.7
         1.0s   220.00nm          6.0mb
                iS     29 44.00
ATO     52.65  59 eP    22 16.80   0.3
IIC     52.72  80 iP    22 18.00   0.4
III     52.77  81 iP    22 19.50   1.7
TAC     52.85  80 iP    22 17.00  -1.4
                iS     29 55.00
IIM     52.87  80 iP    22 19.60   1.0
ATX     52.88  66 iP    22 18.00  -0.2
                S      29 50.00
KUR     53.11 312 iPc   22 20.00   0.3
         1.5s  3820.00nm          7.1mb
       Z  16s    82.50um          6.9MszX
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16d 16h

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     N  16s     54.50um
     E  16s     53.50um
                ePcP  23 30.00
                ePP   24 24.00
                iS    29 54.00
                eSS   33 24.00
IIP    53.11  80 iP    22 21.70   1.2
OCO    53.17  60 eP    22 20.80   0.5
FFC    53.47  35 eP    22 20.00  -2.2
       1.1s    82.00nm          5.6mb
PCO    53.60  58 eP    22 22.70  -0.8
IIT    53.74  80 iP    22 26.20   1.2
SIO    54.12  60 eP    22 26.90  -0.4
TUL    54.54  59 iPd-  22 30.70   0.3
       1.7s  1600.00nm          6.8mb
     Z 21s     49.50um          6.6Msz
HKT    54.66  67 iP    22 31.50   0.3
GBO    55.04  59 eP    22 32.90  -1.2
RLO    55.17  59 eP    22 34.10  -0.9
BHO    55.31  61 iPd   22 35.00  -1.0
MGD    55.54 331 iPc   22 37.40   0.1
       1.9s  1470.00nm          6.7mb
                iPPP  25 54.00
                iS    30 27.40
                iSS   34 03.00
VHO    55.55  82 iP    22 40.00   1.8
NOU    55.74 224 iPc   22 39.00  -0.1
KOU    55.99 227 iPc   22 42.10   1.2
SEY    56.00 334 iPc   22 40.10  -0.4
       1.7s  1000.00nm          6.6mb
                ePP   24 44.60
                iS    30 33.60
RAB    56.59 251 iPc+  22 44.60  -0.9
YSS    56.91 314 iPc   22 48.00   0.7
       1.5s   500.00nm          6.3mb
     Z 17s     60.00um          6.8MszX
     N 17s     17.50um
     E 17s     29.60um
                iS    30 48.00
                eSSS  36 40.00
MIY    56.93 305 eP    22 47.00  -0.5
                S     30 46.00
GUA    57.25 274 eP+   22 50.00  -0.2
       0.8s   263.00nm          6.3mb
                pP    22 56.80  22kmX
                eS    30 51.50
GUMO   57.28 274 eP+   22 51.00   0.6
       1.5s  1590.00nm          6.8mb
                pP    22 57.20  20kmX
CBI    57.31 290 P     22 51.50   1.0
RSON   57.39  42 eP    22 48.30  -2.4
       1.5s   913.00nm          6.6mb
OLY    58.07  60 eP    22 54.20  -1.4
POW    58.28  59 eP    22 54.50  -2.6
TSK    58.41 301 eP    22 57.90  -0.1
KYS    58.42 300 eP    23 03.90   5.8
FVM    58.84  57 iP    23 00.20  -0.8
       2.0s  2230.00nm          6.9mb
SRY    59.11 300 eP    23 02.80  -0.2
OYM    59.15 300 eP    23 04.60   1.3
DDR    59.16 301 eP    23 03.90   0.5
NII    59.21 303 eP    23 06.00   2.5
LST    59.44  59 eP    23 05.00  -0.2
MBC    59.76   9 ePc   23 05.40  -1.4
       1.3s  1300.00nm          6.9mb
ELC    59.81  58 eP    23 07.20  -0.5
MAT    59.93 302 iPc+  23 08.90   0.3
       0.3s   403.00nm          7.0mb
     Z 20s     19.00um          6.2Msz
                eS    31 22.00
LHC    59.97  45 eP    23 06.00  -2.6
       1.8s  2500.00nm          7.0mb
PWLA   60.88  60 eP    23 14.00  -1.1
ALOT   60.91 246 eP    23 19.00   3.5
CRZ    61.55 210 P     23 21.80   2.4
OSK    62.14 300 P+    23 25.00   1.3
                S     31 55.00
LMG    62.27 248 eP    23 29.00   4.1
LAT    62.29 251 eP    23 28.00   3.2
KRP    63.24 205 P     23 29.00  -1.6
                (PP)  25 37.00
PMG    63.38 248 eP+   23 31.00  -0.9
     Z 19s     41.00um          6.6Msz
SSS    63.44  84 eP    23 32.80   0.3
TKL    64.31  59 e(P)  23 36.30  -1.6
SHK    64.59 300 eP    23 41.50   1.7
DLA    65.37  51 P     23 45.30   0.7
ELF    65.53  51 P     23 45.70   0.0
LDN    65.64  51 P     23 46.15  -0.2
PRM    65.65  61 eP    23 45.70  -0.9
GFM    65.85  58 eP    23 47.60  -0.5
YAK    65.92 330 iPc   23 45.80  -1.9
       1.5s   740.00nm          6.6mb
                iPP   26 13.70
                iPPP  27 41.50
                iS    32 33.30
                iPS   32 52.70
                iSS   36 44.70
MDJ    66.02 311 Pc    23 48.50  -0.2
                S     32 40.00
WEL    66.42 204 P     23 55.00   3.8
                S     32 44.00
                SKS   33 31.00
                e     38 00.00
NAV    66.51  57 eP    23 51.20  -0.9
JSC    66.53  60 eP    23 51.90  -0.3
BLA    66.81  57 eP-   23 53.70  -0.4
       1.7s  2540.00nm          7.1mb
     Z 18s     46.90um          6.7Msz
                iS    32 46.00
TIK    67.19 341 iPc   23 55.00  -0.8
       1.9s  1250.00nm          6.8mb
     Z 18s     34.00um          6.6Msz
     N 19s     10.00um
     E 19s     35.00um
                ePcP  24 18.00
                ePP   26 28.00
                eS    32 54.00
                ePPS  33 24.00
                eScS  33 55.00
MVI    67.20 291 eP    23 59.00   2.5
                eS    32 56.00
DHN    67.85  51 eP    23 58.00  -2.4
CVL    68.25  56 eP    24 02.50  -0.5
CN2    69.06 310 iPc   24 07.00  -0.9
                eS    33 10.00
INY    69.15  51 P     24 09.00   0.5
CTA    69.31 239 iPc   24 10.00   0.2
       1.8s   445.00nm          6.3mb
                iS    33 19.00
                i(SS) 37 31.00
CTAO   69.31 239 eP    24 10.80   1.0
       1.4s   134.00nm          5.9mb
OTT    69.32  48 eP    24 10.00   0.6
       2.0s  1200.00nm          6.7mb
PTN    69.94  49 eP    24 12.90  -0.4
RSNY   70.27  49 eP    24 14.30  -1.0
       1.5s   869.00nm          6.7mb
PRIN   70.77  53 eP    24 18.20  -0.2
MNT    70.77  48 eP    24 17.00  -1.3
       1.5s   780.00nm          6.6mb
ALE    71.27   8 eP    24 19.90  -0.8
       0.7s   205.00nm          6.4mb
TUP    71.35 322 ePc   24 21.60   0.0
       2.0s   810.00nm          6.5mb
FRB    71.41  28 eP    24 22.00   0.3
MSZ    72.02 207 eP    24 27.00   1.4
                (pP)  24 31.90  16kmX
BNH    72.57  48 eP    24 29.20   0.1
DL2    72.69 306 iPc   24 29.60  -0.3
                pP    29 51.00
                S     33 55.00
                sS    34 32.00
RIV    73.42 224 eP    24 36.00   1.9
SCH    73.60  37 eP    24 35.00   0.1
       1.8s   834.00nm          6.5mb
BOD    73.96 326 iPc   24 37.40   0.5
       1.4s  1000.00nm          6.7mb
MIM    73.99  47 eP    24 38.00   0.7
CBM    74.28  45 eP    24 41.00   2.0
SSE    74.72 298 iP+   24 41.50  -0.3
       6.0s     3.90nm          3.6mb X
     Z 24s     29.60um          6.5MszX
     N 18s      6.80um
     E 22s     22.00um
                i     24 59.00
                i     25 06.00
                pP    25 14.00 130kmX
                sP    25 32.00
                PP    27 30.50
                S     34 02.00
ISO    75.10 241 eP    24 45.00   0.8
YOU    75.54 225 eP    24 49.60   3.2
CMS    75.71 229 eP    24 49.00   1.6
CAN    75.74 224 iPc   24 49.70   2.1
ANP    75.89 292 iP+   24 51.00   2.2
                iS    34 40.00
GDH    76.14  21 iPd   24 50.40   1.2
       1.0s    84.00nm          5.8mb
                i     24 55.00
                iS    34 35.00
WAM    76.34 223 eP    24 53.30   2.5
NJ2    76.42 299 iPc   24 52.00   0.5
                pP    25 15.00  87kmX
                PP    27 50.00
                PS    35 12.00
CNP    76.52 279 iPc   24 56.00   3.7
BJI    76.56 308 iPc   24 52.00  -0.1
       1.5s   437.00nm          6.3mb
                esP   25 06.50
                PP    27 45.00
                eS    34 38.00
                PS    35 19.00
PLP    76.63 277 iPd   24 51.80  -1.1
       1.2s   558.00nm          6.5mb
TIA    76.77 304 iPc   24 53.40   0.0
                S     34 43.00
LGP    77.20 280 ePd   24 58.00   1.9
       1.2s  1260.00nm          6.9mb
DAV    77.31 273 iPc+  24 57.50   0.8
                eS    34 52.00
CGP    77.71 275 ePc   25 01.00   2.1
       0.6s    87.00nm          6.0mb
AAI    78.40 262 eP    25 02.90   0.2
       0.8s   177.00nm          6.2mb
PSO    78.41  93 iP    25 04.50   1.2
KHE    78.64 355 iPc   25 04.00   1.1
       1.7s  1280.00nm          6.7mb
     Z 18s     35.00um          6.7Msz
     N 18s     27.00um
     E 18s     25.00um
                iPP   28 05.00
                iS    35 04.00
                iScS  35 25.00
                ePPS  35 58.00
STK    78.97 231 eP    25 06.00   0.5
WB2    79.12 244 eP    25 06.90   0.3
WRA    79.13 244 Pc    25 12.30   5.7
       1.0s    29.80nm          5.3mb X
BAG    79.16 284 iP+   25 06.00  -1.1
       1.6s   473.00nm          6.3mb
                iS    35 10.00
MAN    79.22 282 eP    25 09.50   2.4
       1.0s   333.00nm          6.3mb
QCP    79.23 282 eP    25 14.00   6.8
TOO    79.35 224 eP    25 09.00   1.5
HHC    79.74 310 iPc   25 10.00   0.3
                S     35 05.00
                SKS   35 15.00
                sS    35 40.00
MNI    79.81 268 eP    25 12.50   2.0
TIY    79.99 306 iPc   25 11.00  -0.1
                pP    25 33.00  82kmX
                sP    25 41.50
                PP    28 16.00
                S     35 13.00
                sS    35 48.00
BOG    80.37  88 iP    25 15.50   1.6
                iS    35 22.00
BOCO   80.40  89 eP    25 16.60   2.5
       1.3s   449.00nm          6.3mb
FUO    80.41  88 iP    25 16.00   1.9
WHN    80.54 299 iPc   25 14.40   0.4
                pP    25 36.00  81kmX
                iS    35 23.00
                PS    36 20.00
DAG    80.58   9 iPc   25 13.00  -0.4
       0.9s   378.00nm          6.4mb
                iS    35 16.00
NRI    80.76 341 eP    25 23.10   8.6
       9.0s  *******nm          7.0mb X
     Z 18s     30.00um          6.7Msz
     N 18s     19.50um
     E 18s      6.70um
                ePP   28 15.00
                ePPP  30 13.00
                iS    35 22.00
                ePS   36 12.00
IRK    80.92 322 iPc   25 16.50   0.9
       2.0s   790.00nm          6.4mb
                ePP   28 18.00
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16d 16h

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                    ePPP  30 16.00
                    iS    35 24.00
                    iSKS  35 28.00
                    ePS   36 10.00
                    eSS   40 44.00
BTO    80.93 310 iPc   25 17.00   0.9
                    PP    28 24.50
                    eS    35 19.50
BFD    81.09 226 eP    25 18.00   1.3
ASPA   81.09 241 eP    25 17.00  -0.1
LGN    81.26  82 i(P)  25 19.00   1.0
UAV    81.85  84 eP    25 24.00   2.6
ZAK    82.18 321 eP    25 13.40  -8.8
       2.0s   770.00nm         6.5mb
                    ePP   28 27.00
                    iS    35 40.00
                    eSS   41 02.00
SDV    82.25  83 iPc   25 25.10   1.6
       0.7s    57.10nm         5.8mb
ADE    82.61 229 iPc   25 30.50   5.8
       1.0s   124.00nm         6.0mb
TOV    82.75  82 eP    25 24.00  -1.9
HKC    83.16 291 iP    25 31.50   3.7
                    iS    36 16.00
LM2    83.29 105 iP    25 30.50   2.0
NNA    83.45 105 iP    25 29.70   0.3
       2.0s  1480.00nm         6.8mb
SJG    83.51  73 iP    25 28.70  -1.0
       1.0s   170.00nm         6.2mb
     Z  20s    18.40um         6.5Msz
GZH    83.64 292 Pc    25 31.50   1.2
                    PP    28 42.50
                    eS    35 46.50
XAN    83.83 304 Pc    25 31.00  -0.2
STJ    84.11  42 eP    25 32.50   0.3
CAR    85.19  81 eP    25 39.40   1.1
       0.6s    37.30nm         5.8mb
     Z  20s    21.10um         6.5Msz
     N  20s    16.00um
     E  20s    25.00um
KKM    86.45 275 ePd   25 48.00   3.4
UER    87.00 324 iPc   25 47.50   1.1
       1.9s   800.00nm         6.6mb
                    iS    36 16.60
LZH    87.02 307 iPc+  25 48.00   0.9
       5.0s  5870.00nm         7.1mb X
     N  13s    19.50um
                    pP    25 56.00  25kmX
                    ePP   29 03.00
                    S     36 16.00
                    sS    36 36.00
                    SS    41 53.00
MKS    87.09 263 iPc   25 49.50   2.0
WBN    88.17 242 eP    25 56.00   3.5
PAG    88.22  74 eP    25 54.00   1.0
GYA    88.25 297 Pc    25 54.00   0.9
                    sP    26 20.00
                    S     36 24.00
                    PS    37 08.00
SEG    88.26  73 eP    25 51.00  -2.1
MGG    88.59  74 eP    25 55.00   0.3
GTA    88.67 311 iPc   25 55.70   0.8
                    PP    29 26.40
                    iS    36 28.00
                    PS    37 47.00
CD2    89.02 302 iPc   25 57.00   0.4
                    S     36 28.50
AKU    89.22  16 iP    26 03.50   6.7
       1.4s   270.00nm         6.3mb
REY    89.31  19 eP    26 03.10   5.8
ARE    89.88 107 eP    26 03.00   1.9
ELT    90.25 328 iPc   26 02.80   1.0
       2.0s   830.00nm         6.6mb
                    iSKS  36 34.00
TRN    90.28  79 eP    26 02.00  -0.6
NVS    90.74 330 iPc   26 05.50   1.5
       1.6s   690.00nm         6.7mb
KEV    91.04 359 eP    26 06.00   0.8
       1.3s   188.00nm         6.3mb
                    i     26 10.00
                    ePP   29 44.00
                    eS    36 40.00
                    eSS   43 08.00
TRO    91.09   2 eP    26 06.00   0.6
KMI    92.03 297 Pc+   26 12.00   1.1
     E  16s    11.80um
                    pP    26 38.00  97kmX
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                    PP    29 49.00
                    eSKS  36 33.00
                    iS    36 48.00
                    sS    37 25.00
ZOBO   92.86 106 eP    26 16.00   0.9
       2.2s   436.00nm         6.5mb
KIR    92.93   2 iP    26 18.50   4.5
LPB    92.97 106 Pd-   26 17.00   1.5
       2.0s   706.00nm         6.7mb
     Z  18s    25.80um         6.7Msz
                    PP    30 00.00
                    SKS   36 55.00
                    SS    43 34.00
APA    93.03 357 ePc   26 14.80   0.4
       1.5s   190.00nm         6.3mb
     Z  21s    23.00um         6.6Msz
                    iPP   29 57.00
                    iSKS  36 52.00
                    iS    37 23.00
                    iPS   38 35.00
ANT    93.29 114 eP    26 19.00   2.7
                    iS    37 02.00
                    e     55 26.00
SOD    93.44 359 iP    26 16.30   0.0
                    i     26 21.60
                    iPP   29 51.40
TRT    94.31 263 ePc   26 24.20   3.0
WMQ    94.61 320 P     26 23.00   0.7
                    PP    30 13.00
SEM    94.94 328 ePc   26 22.80  -0.7
       5.0s  1710.00nm         6.7mb X
                    ePP   30 09.80
                    eSKS  36 58.00
TLL    95.11 120 iPc   26 25.70   0.8
ROCH   95.87 123 eP    26 30.00   1.7
TACH   96.15 123 eP    26 31.00   1.7
PEL    96.19 123 iPc   26 32.00   2.5
NAU    96.40 248 eP    26 34.00   3.4
PCH    96.48 123 eP    26 33.00   2.1
FCH    96.56 123 iPc   26 34.60   3.0
KJF    96.61 359 iP    26 32.00   1.1
       1.1s    91.20nm         6.2mb
     Z  20s    20.00um         6.6Msz
                    i     26 36.00
                    iPP   30 27.00
                    eSKS  37 12.00
                    eS    37 42.00
                    ePS   39 16.00
                    eSS   44 28.00
YJA    97.08 111 ePc   26 36.00   1.7
PCT    97.14 288 eP    26 36.00   1.9
                    e     51 33.00
MDZ    97.56 122 e(P)  26 37.60   1.8
CHG    97.73 293 iPd   26 40.00   3.2
       1.0s    16.00nm         5.6mb
                    eS    37 04.00
SLA    97.87 113 iPc   26 39.00   1.6
NST    97.90 290 eP    26 40.60   3.1
SUF    98.12 359 iP    26 38.70   1.0
       0.9s    10.90nm         5.5mb
DRV    98.14 201 eP    26 35.00  -2.5
SVE    98.24 341 ePc   26 38.50   0.1
       1.9s   180.00nm         6.4mb
                    ePP   30 33.00
                    iSKS  37 18.00
BDT    98.29 292 eP    26 39.80   0.6
       1.8s   201.00nm         6.5mb
LEM    98.75 266 e(P)c 26 45.50   3.9
                    eS    38 26.00
BER    98.95  10 eP    26 46.00   4.5
NB2    99.10   7 P     26 37.40  -4.9
       1.0s    12.90nm         5.5mb
ARU    99.20 342 ePc   26 42.50  -0.3
       1.8s   340.00nm         6.7mb
     Z  21s    29.00um         6.8Msz
     N  23s    17.00um
     E  17s    14.00um
                    ePP   30 51.00
                    ePPP  32 59.00
                    iSKS  37 23.50
                    eS    38 12.50
LSA    99.38 306 eP    26 46.80   2.1
NNT    99.44 287 eP    26 57.80  13.3
HFS   100.23   5 ePdiff26 51.50   4.3
       1.7s   144.00nm         6.2mb
     Z  18s    21.40um         6.7Msz
KON   100.26   8 e(Pdif26 48.00   0.7
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     Z  22s    23.80um         6.7Msz
NUR   100.35 360 ePdiff26 48.00   0.4
     Z  20s    26.40um         6.7Msz
                    iPP   30 51.20
                    eSKS  37 28.00
                    eS    38 22.00
                    ePS   39 51.00
SHL   100.75 302 iPdiff26 53.70   3.1
                    iS    37 29.40
UPP   100.80   4 iPdiff26 54.40   4.8
       1.4s   400.00nm         6.8mb
                    iPP   31 02.40
                    iS    38 25.00
PRZ   100.91 323 ePdiff26 52.00   1.1
       2.0s   130.00nm         6.2mb
     N  22s    22.10um
                    ePP   30 56.00
                    ePPP  33 03.00
                    eSKS  37 33.00
                    eSP   39 52.00
PUL   100.95 357 ePdiff26 53.00   2.7
       1.8s   240.00nm         6.5mb
                    iPP   30 58.00
                    iSKS  37 32.00
                    iS    38 26.00
                    iSP   39 58.00
                    iSS   45 28.00
TLG   100.99 324 iPdiff26 52.00   0.9
       2.1s    40.00nm         5.6mb
                    iPP   30 57.00
                    iSKS  37 34.00
                    iSP   39 58.00
AAA   101.23 324 iPdiff26 54.00   1.9
       9.0s     2.00nm         3.7mb X
                    iPP   31 04.00
                    iPPP  33 19.00
                    iSKS  37 35.00
                    iPS   40 07.00
EKA   101.89  16 Pdiff 27 00.00   5.3
       0.8s     3.20nm         5.0mb X
VAL   102.72  21 ePdiff27 03.00   4.6
                    PS    40 13.00
FRU   102.80 325 ePdiff27 00.00   0.9
       2.0s   120.00nm         6.3mb
     N  18s    17.50um
     E  20s    22.00um
                    ePP   31 16.00
                    ePPP  33 24.00
                    iSKS  37 42.00
                    iPS   40 19.00
NRN   102.96 323 ePdiff27 02.60   2.4
                    eSKS  38 31.00
MUD   103.30   9 iPdiff27 06.40   5.5
       1.4s    65.00nm         6.2mb
KSH   104.25 321 Pdiff 27 08.00   2.2
                    PP    31 23.00
MOS   104.31 352 ePdiff27 06.00   0.6
     N  21s    33.20um
     E  17s    21.60um
                    ePP   31 24.00
                    ePPP  33 40.00
                    eSKS  37 49.00
                    eS    38 55.00
COP   104.48   7 ePdiff27 07.00   0.9
                    iS    37 52.00
KKN   104.80 307 ePdiff27 10.40   1.8
       1.2s    54.00nm         6.3mb
PKI   104.81 307 ePdiff27 10.30   1.5
       1.2s    47.00nm         6.3mb
OBN   105.00 353 ePdiff27 10.00   1.6
       2.0s   140.00nm         6.5mb
     Z  20s    28.00um         6.8Msz
     N  20s    23.00um
     E  18s    10.00um
                    iPP   31 32.00
                    iSKS  37 54.00
                    eSKS  38 32.00
                    iS    38 58.00
                    iSP   40 40.00
                    iPPS  41 44.00
ANR   105.45 324 ePdiff27 12.50   1.6
                    ePP   31 34.00
                    eSKS  37 55.50
                    eSP   40 40.00
HAM   106.32   9 ePKP  31 11.00 -14.8
TAS   106.70 326 ePdiff27 15.00  -1.4
       8.0s   900.00nm         6.9mb X
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16d 16h

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     Z  20s     19.00um          6.6Msz
     N  24s     18.60um
                  ePP   31 44.00
                  ePPP  33 56.00
                  eSKS  37 58.00
                  iSP   40 54.00
                  eSSS  50 44.00
DBN   106.79  12 ePdiff27 18.00   1.5
     Z  19s     14.90um          6.6Msz
                  e     30 44.00
                  iPP   31 42.00
                  ePPP  34 12.00
                  iSKS  38 11.00
                  iS    39 19.00
                  iSP   41 00.00
                  iSPP  41 56.00
                  eSS   46 58.00
LPA   106.85 122 ePdiff27 20.00   2.8
     Z  20s     22.00um          6.7Msz
                  iSKS  38 03.20
GAR   107.80 324 ePdiff27 23.50   1.9
      2.0s      30.00nm          6.1mb
                  iPP   31 54.00
                  iPS   41 14.00
UCC   107.85  13 ePKP  31 30.00   1.2
                  PP    31 47.70
                  SPP   41 05.00
KHO   108.17 322 ePdiff27 20.70  -2.6
     Z  18s     21.50um          6.7Msz
     N  18s     12.00um
     E  18s      9.20um
                  ePP   31 50.80
                  ePPP  34 10.00
                  eSKS  38 08.00
                  ePS   41 20.00
ENN   108.21  12 ePdiff27 26.50   3.6
                  ePP   30 35.00
DOU   108.57  13 Pdiff 27 40.30  15.8
WAR   108.57   2 e(Pdif27 25.00   0.6
CLL   108.84   8 iPdiff27 29.60   3.9
      1.5s      41.00nm          6.4mb
                  eSKS  38 09.00
                  eS    39 35.00
                  PKKP  42 55.90
                  e     46 49.80
                  P'P'  51 11.00
KUL   108.89 324 ePdiff27 28.50   2.2
                  ePP   31 57.50
                  eSKS  38 11.70
DSH   108.96 325 ePdiff27 26.50  -0.2
      9.0s   6300.00nm          7.8mb X
                  eSKS  38 08.00
                  ePS   41 21.00
LPF   109.04  18 ePdiff27 30.60   4.0
      1.0s      24.00nm
SAM   109.10 327 ePdiff27 28.00   0.8
                  iPPP  34 16.00
                  iSKS  38 12.20
                  iSP   41 15.10
MOX   109.31   9 ePdiff27 32.50   4.7
      1.6s      43.00nm
     Z  16s     14.10um          6.6MszX
     N  16s     11.80um
     E  20s     12.10um
                  ePP   31 52.00
                  eSKS  38 15.00
                  eS    39 35.00
                  ePS   41 30.00
                  ePKKP 42 55.00
                  e     46 56.00
                  eSS   47 24.00
                  eP'P' 51 06.00
BRG   109.39   7 iPdiff27 33.00   4.9
      1.4s      52.00nm
     Z  18s     11.00um          6.5Msz
     N  18s      9.50um
     E  18s     13.00um
                  eSKS  38 12.00
                  eS    39 40.00
KSP   109.66   6 ePdiff27 30.00   0.6
                  i     27 35.00
                  e     32 08.00
                  e     42 53.00
GRFO  110.18   9 e(PKP)31 39.30   6.0
GRF   110.18   9 ePdiff27 31.90   0.2
     Z  19s     13.30um          6.5Msz
                  e     27 36.70
                  e     31 39.10
                  e     32 08.00
NDI   110.18 312 iPdiff27 34.00   1.8
     Z  22s     24.10um          6.7Msz
     N  20s      6.38um
     E  20s     13.50um
                  ePP   30 43.00
GWF   110.25  12 iPKPd 31 40.00   6.5
PRU   110.33   7 ePdiff27 34.00   1.7
      1.5s      40.20nm
     Z  18s     15.30um          6.6Msz
     N  18s     12.80um
     E  18s      7.40um
                  e     31 05.00
                  e     31 55.00
                  iPP   32 14.50
                  SKS   38 18.00
                  S     39 50.00
                  iPS   41 32.00
                  iSS   47 38.00
                  i     58 35.00
BUH   110.66  11 ePKP  31 40.20   5.9
KRA   110.70   3 ePdiff27 36.00   2.0
      1.2s      47.00nm
     Z  22s     25.80um          6.8Msz
     N  22s     25.60um
     E  22s      9.00um
                  e     27 40.00
                  e     27 52.70
                  e     32 20.20
                  e     38 18.00
                  i     41 40.00
                  e     47 40.00
CDF   110.72  12 ePdiff27 39.90   5.6
GRC   110.83  15 iPKPd 31 41.50   6.9
                  i     32 08.90
HAU   110.92  13 ePKP  31 38.30   3.5
      1.4s      18.80nm
LOR   111.05  15 ePdiff27 40.80   5.1
      1.4s      11.70nm
LOR   111.05  15 ePKP  31 41.80   6.7
      1.4s      35.20nm
KHC   111.05   8 Pdiff 27 37.60   1.9
     Z  16s      6.10um          6.3MszX
     N  16s      3.90um
     E  17s      5.60um
                  PP    31 56.90
                  e     39 54.00
                  e     41 42.00
SSF   111.15  15 ePdiff27 41.10   5.0
      1.4s      13.30nm
SSF   111.15  15 ePKP  31 42.00   6.7
      1.4s      27.40nm
BSF   111.18  13 ePdiff27 40.20   3.9
BSF   111.18  13 ePKP  31 40.20   4.8
      1.4s      31.30nm
BAF   111.22  13 ePKP  31 41.00   5.5
LBF   111.34  15 ePdiff27 41.90   4.9
LBF   111.34  15 ePKP  31 42.30   6.6
      1.4s      20.30nm
ROF   111.35  13 iPKPc 31 43.20   7.6
SPC   111.59   3 e(Pdif27 44.30   6.1
                  i     32 17.20
FUR   111.67  10 ePdiff27 43.30   4.9
      1.3s      55.00nm
MZF   111.70  16 ePdiff27 37.80  -0.8
UZH   112.22   2 ePdiff27 44.00   3.2
     Z  19s     20.00um          6.7Msz
     N  19s     27.00um
                  iPP   32 25.00
                  eSKS  38 15.00
                  iPS   41 55.00
JOS   112.29   3 ePdiff27 47.00   5.9
      2.0s      70.00nm
PTO   112.34  27 ePdiff27 21.80 -19.7
ZST   112.36   5 ePdiff27 42.00   0.6
ZST   112.36   5 ePKP  31 44.30   6.8
                  e     32 13.60
KBA   113.04   8 Pdiffd27 50.30   5.6
KBA   113.04   8 PKPd  31 44.50   5.4
      1.8s     162.00nm
                  e     32 09.70
                  iPP   32 15.40
                  ipPP  32 36.70
MMK   113.12  12 ePKPd 31 48.20   8.9
TMA   113.25  12 ePKPd 31 46.20   6.7
ORO   113.53  13 ePKP  31 45.00   5.0
                  e     32 20.00
RBL   113.69   8 ePKP  31 46.50   6.2
                  e     33 29.00
KIS   113.75 357 ePKP  31 52.00  11.8
     Z  22s     21.00um          6.7Msz
     E  18s      4.50um
                  iPP   32 32.00
                  iSKS  38 24.00
                  eSP   42 06.00
                  iSS   48 16.00
CTI   113.79  10 ePKP  31 46.70   6.2
EPF   113.98  19 ePKP  31 45.60   4.7
      1.3s      18.20nm
SAL   114.03  11 ePKP  31 48.00   7.2
                  e     32 34.00
CJR   114.16   1 ePKP  31 47.00   5.8
CLI   114.29 358 ePKP  31 48.00   6.7
VG1   114.42  12 ePKP  31 49.00   7.4
                  e     32 40.00
TRI   114.44   8 e(Pdif27 52.00   1.3
                  e(pP) 28 38.00
CEY   114.50   8 ePKP  31 46.00   4.2
GRO   114.58 343 ePdiff27 54.00   2.6
      8.0s    1500.00nm
     Z  20s     46.00um          7.1Msz
     N  20s     95.00um
     E  20s     41.00um
                  iPP   32 39.00
                  iPS   42 16.00
                  iSS   48 32.00
PYA   114.61 345 ePdiff27 52.00   0.4
                  iPP   32 37.00
                  iPPP  35 04.00
                  iPS   42 15.00
ASH   114.67 331 ePKP  31 42.00  -0.3
     Z  20s     28.60um          6.9Msz
                  ePP   32 41.00
                  ePPP  35 06.00
                  eSKS  38 36.00
VAN   114.79 331 ePdiff27 56.00   3.5
     Z  20s     23.20um          6.8Msz
     N  20s      9.52um
     E  20s     23.50um
                  ePP   32 40.00
                  ePPP  35 06.00
                  ePS   42 18.00
                  iSS   48 36.00
VRI   114.98 358 ePKP  31 59.00  16.3
FRF   115.20  14 ePKP  31 48.30   5.2
      1.2s      23.00nm
LRG   115.23  15 ePKP  31 48.40   5.2
      1.2s      31.10nm
TOL   115.24  24 ePKP  31 45.00   1.6
                  iPP   32 46.00
                  i     33 12.00
                  ePKS  34 58.00
                  iSKS  38 32.00
                  eSKKS 39 37.00
                  i     40 34.00
                  iPS   42 23.00
                  iSS   48 21.00
                  eSSS  52 38.00
SIM   115.34 352 ePdiff27 57.00   2.2
     Z  20s     22.00um          6.8Msz
     N  20s     19.00um
     E  20s      7.00um
                  iPP   32 51.00
                  iPPP  35 15.00
                  eSKS  38 33.00
                  iPS   42 27.00
MLR   115.38 359 ePKPc 31 49.00   5.4
LMR   115.38  14 ePKP  31 50.10   6.6
      1.2s      17.20nm
MHI   115.47 329 ePdiff28 00.00   4.3
                  e     31 26.00
                  e     31 50.00
                  e     32 44.00
                  eS    42 22.00
HYB   115.54 301 ePdiff27 54.00  -2.3
HYB   115.54 301 ePKP  31 45.00   0.4
                  e     32 40.00
CMP   115.61 360 ePKPc 31 45.00   1.1
SOC   115.77 348 ePdiff28 00.00   3.3
                  iPP   32 50.00
                  ePPP  35 17.00
                  iSKS  38 40.00
                  iPS   42 27.00
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SSR 115.97 2 ePKP 31 47.00 2.4
SOB1 116.09 91 ePKP 31 50.40 4.7
e 32 50.70
MTA 116.35 343 ePKP 31 34.80 -10.5
eSKS 38 41.80
ePS 42 34.80
KRV 116.89 342 iPKP 31 52.00 5.6
ePS 42 36.00
LEN 117.48 344 ePKP 31 55.00 7.2
iPP 33 00.00
iSKS 38 55.00
ePS 42 42.00
MNS 117.53 10 ePKP 31 52.00 4.5
KHI 117.61 328 ePKP 31 48.00 -0.3
AOU 117.67 9 ePKP 31 51.50 3.5
e 33 07.50
PVL 117.73 359 iPKPd 31 56.00 8.1
MAL 117.81 26 iPKP 31 53.80 5.5
iPP 33 08.50
ERE 117.85 343 ePKP 31 52.00 3.6
eSKS 39 00.00
GRS 117.94 341 iPKP 31 46.00 -2.7
iPP 33 10.00
ePPP 35 35.00
TTG 118.26 4 ePKP 31 54.50 5.6
VTS 118.27 1 ePKP 31 49.00 0.1
ITR 118.29 90 ePKP 31 49.20 -0.7
i 31 54.70
GBA 118.45 298 PKPd 31 48.80 -1.3
0.9s 3.80nm
DUI 118.51 9 ePKP 31 51.00 1.6
e 33 07.00
POO 118.64 305 ePKP 31 51.50 1.1
DIM 118.83 359 ePKP 31 53.00 2.9
SKO 118.84 3 iPKP 31 54.00 3.9
N 19s 2.90um
E 20s 13.30um
i 33 20.00
KDZ 119.24 359 iPKP 31 56.00 5.1
MMB 119.29 1 iPKPd 31 56.00 5.0
AVE 119.34 31 ePKP 31 57.00 5.7
BRT 119.62 6 ePKP 31 57.00 5.4
e 33 17.00
OHR 119.67 3 ePKP 31 53.60 1.8
i 33 09.00
i 33 36.70
IFR 120.22 29 iPKP 31 58.00 4.8
LCI 120.23 6 ePKP 31 59.00 6.3
e 33 23.00
ORI 120.35 7 ePKP 31 58.00 5.0
ERC 121.75 11 ePKP 32 01.50 5.8
MSL 121.77 342 iPKPd 32 02.00 6.2
iPP 33 29.50
iPKS 35 51.50
eSKS 38 46.00
iSKKS 40 32.50
KER 122.37 338 ePKP 32 08.00 10.8
IZM 122.42 357 ePKP 32 01.20 4.1
BCK 123.13 354 ePKP 32 04.00 5.5
ELL 123.90 355 ePKP 32 04.00 3.9
SHI 124.25 330 ePKP 32 06.00 4.9
MAW 126.10 197 ePKP 32 06.00 2.7
1.5s 49.00nm
Z 16s 4.60um 6.2MszX
ADI 126.80 349 ePKP 32 11.00 5.3
JER 128.08 348 ePKP 32 14.50 6.2
NVL 128.10 175 iPKP 32 11.00 4.0
Z 17s 2.30um 5.9MszX
N 17s 13.00um
E 17s 8.00um
HLW 130.56 352 iPKPc 32 16.00 3.1
KIC 141.42 51 ePKP 32 27.90 -5.8
e 32 40.40
e 35 25.30
BNG 155.56 15 iPKPc 32 58.00 2.2
1.7s 238.00nm
AVY 158.10 267 ePKPc 33 04.00 5.0
NAI 158.33 325 ePKPc 33 07.00 7.5
2.0s 471.00nm
NPA 165.31 285 ePKP 33 12.00 5.9
e 34 05.00
e 37 51.00
GRM 166.05 187 iPKPd-33 09.20 2.9
1.7s 269.00nm
Z 18s 11.20um
i 33 32.50
HVD 168.84 184 iPKPd 33 19.30 10.8
i 34 29.20
BLF 170.25 189 iPKPd 33 14.50 5.2
i 34 30.70
SEK 170.71 197 iPKPd 33 16.00 6.4
VIR 171.13 193 iPKPd 33 12.20 2.4
i 34 35.00
EVA 171.81 210 e(PKP)33 15.50 5.4
e 34 38.00
BFS 172.29 195 iPKPd 33 14.30 4.0
1.9s 442.00nm
i 34 37.40
BPI 172.56 205 iPKPd 33 17.00 6.5
e 34 40.00
MTD 172.81 290 iPKPc 33 14.00 3.4
iPP 34 40.00
i 38 35.00
SLR 172.84 208 iPKPd 33 16.20 5.7
1.0s 36.00nm
Z 21s 22.90um
i 33 43.00
KRI 174.53 297 iPKPc 33 16.00 4.6
iPP 34 49.00
i 38 40.00
iPKKP 44 08.00
BUL 176.10 259 iPKPc 33 17.00 5.4
iPP 34 55.00
i 38 50.00
iPKKP 43 49.00
474 obs. associated

NOV 24, 1983 05h 30m 36.46± 0.07s
7.444 S ± 1.7km 128.137 E ± 2.0km
DEPTH = 198.8km (31 depth phases)
6.5mb (62 obs.)
BANDA SEA (280)
Felt on Alor, Flores, Sumba and Timor. Also felt in Australia from Darwin to Perth. Note the large Ms magnitude for this event, despite the well-constrained depth of 199 km.

AAI 3.73 1 iPd 31 36.00 0.6
KUPT 5.22 239 ePd 31 53.70 -0.7
MTN 6.12 151 iPd 32 01.80 -4.2X
KNA 8.28 176 iPc 32 29.80 -4.5X
MKS 8.89 284 iPd 32 45.40 3.1X
MNI 9.42 339 ePd 32 52.00 2.8X
eS 35 18.50
BKB 12.82 298 iPc 33 40.00 7.2X
1.4s 1720.00nm 6.3mb
WRA 13.81 155 Pc 33 41.20 -4.0X
WB2 13.81 155 iPd 33 39.60 -5.7X
DAV 14.66 350 eP 33 57.00 1.2
MBL 15.82 210 eP 34 07.00 -3.1X
CGP 16.16 348 iPd 34 09.00 -5.2X
iS 34 25.00
ASPA 17.05 162 iPd 34 20.00 -4.9X
TBL 17.11 80 eP 34 24.30 -1.3
ISO 17.21 141 iPd 34 20.10 -6.5X
MDG 17.67 84 iPc 34 30.00 -1.5
KKM 17.92 318 ePc 34 35.10 0.9
eS 35 22.90
e 35 38.20
e 35 47.00
e 36 28.50
e 47 11.20
CCP 18.15 347 iPd 34 38.00 1.4
iS 35 11.20
WBN 18.65 184 iPd 34 40.20 -1.6
LAT 18.74 89 eP 34 40.00 -2.7
PLP 18.75 350 iPd 34 43.00 0.1
PMG 18.91 97 iP+ 34 40.50 -4.0X
NAU 19.32 218 iPd 34 48.10 -0.6
PPR 19.50 331 ePd 34 52.00 1.4
iS 35 25.20
LMG 19.86 96 eP 34 51.00 -3.4X
MOM 19.93 75 eP 34 54.00 -0.9
CNP 20.12 350 ePc 35 01.00 4.2X
eS 35 26.00
LGP 20.93 348 iPd 35 12.00 7.2X
MEK 21.13 204 iPd 35 06.00 -0.8
CTA 21.59 127 iPc 35 11.00 -0.4
0.5s 54.60nm 5.3mb X
i 35 13.00 7kmX
CTAO 21.59 127 iP 35 11.00 -0.4
QCP 23.03 342 eP 35 27.00 1.8
KLG 24.05 194 eP 35 35.00 0.1
RAB 24.12 84 iPd+ 35 35.00 -0.7
BAG 24.85 343 iP+ 35 40.00 -2.6
BAL 25.41 203 eP 35 48.00 0.6
KLB 25.90 201 eP 35 51.00 -0.9
KGM 26.48 290 ePd 35 58.00 0.6
0.9s 459.00nm 6.2mb
e 36 10.00 47kmX
e 36 45.00
e 39 20.50
GUA 26.68 39 eP 35 58.00 -1.1
0.9s 2400.00nm 6.9mb
pP 36 03.00 18kmX
e 36 36.00
eS 40 20.00
MUN 26.82 203 eP 35 58.00 -2.3
PAA 27.18 89 eP 36 01.50 -2.3
STK 27.36 154 iPc 36 03.40 -1.7
RKG 28.42 200 eP 36 19.00 4.4X
KLM 28.44 291 eP 36 17.00 2.0
e 37 01.50 223kmX
PPI 28.51 283 ePd 36 15.00 -0.6
0.9s 425.00nm 6.2mb
ADE 29.07 162 iPc 36 19.60 -0.8
CMS 29.07 148 iPc 36 18.70 -1.7
IPM 29.57 293 ePc 36 23.20 -1.8
1.0s 305.00nm 6.0mb
e 36 37.80 59kmX
e 36 54.70
e 37 11.40
e 38 09.90
e 39 16.90
e 39 37.90
e 42 59.90
PSI 30.84 288 iPc 36 34.60 -1.5
SVO 31.39 95 eP 36 38.00 -2.9
e(S) 38 23.00
TSI 31.45 289 e(P) 36 41.00 -0.4
1.1s 702.00nm 6.3mb
HNR 31.52 96 ePc 36 40.00 -2.1
e(S) 38 26.00
ISI 31.82 353 eP 36 44.00 -0.5
eS 37 31.00
COO 32.01 139 iPc 36 45.40 -0.8
BFD 32.37 158 iPc 36 48.40 -0.8
HKC 32.58 335 iP 36 51.00 -0.1
iS 51 59.00
MCO 32.67 334 iP 36 52.60 0.6
ANP 33.06 349 iP+ 36 56.00 0.6
iS 41 45.00
MVI 33.21 5 eP 36 58.00 1.5
QZH 33.51 344 iPc 36 57.50 -1.6
pP 37 43.00 221kmX
sP 38 09.00
iS 42 08.50
ScP 42 51.00
PcS 43 09.50
GZH 33.62 335 iP 36 59.00 -1.0
ipP 37 45.00 224kmX
isP 38 10.00
iS 42 05.00
isS 43 20.00
iSS 44 24.00
CAN 33.71 148 iPc 37 00.10 -0.7
RIV 33.79 144 eP 37 04.00 2.6
TOO 33.88 155 iPc 37 02.60 0.4
NNT 34.54 305 eP 37 21.30 13.3X
i 40 05.00
NZJ 35.63 2 eP 37 17.00 0.0
S 42 42.20
NST 36.01 310 iPd 37 19.80 -0.6
KHT 36.69 307 eP 37 30.50 4.4X
CBI 36.93 21 P 37 27.20 -0.8
BDT 37.83 311 iPc 37 36.00 0.4
0.7s 468.00nm 6.2mb
TAJ 38.06 4 eP 37 38.00 0.7
eS 43 20.00
CHG 38.85 313 iPc 37 44.50 0.4
1.2s 198.00nm 5.6mb
eS 42 18.00
KAG 38.86 3 Pd 37 44.80 0.8
S 43 24.30
SSE 38.89 350 iPc+ 37 43.00 -1.2
4.0s 7.60nm 3.7mb X
E 10s 54.00um
pP 38 32.00 235kmX
PP 39 20.00

24d 05h

			PcP	39	40.00			FUK	43.93	9	eP	38	27.00	1.8		SAP	51.68	12	eP	39	22.00	-3.0X
			i	40	21.00			DDR	44.44	13	eP	38	25.00	-4.4X					S	46	35.00	
			ScP	43	13.00			CHD	44.57	15	eP	38	35.00	4.7X		MDJ	51.83	1	eP	39	24.50	-1.7
			IS	43	32.00						eS	44	53.00						pP	40	14.00	224kmX
			SS	46	25.00			TIA	44.64	347	Pc	38	29.40	-1.5					sP	40	39.00	
			i	47	58.00						PP	40	14.70						iS	46	36.00	
MYZ	39.26	4	eP	37	47.00	-0.3					S	44	53.20			OBI	51.97	14	eP	39	28.00	0.8
			eS	43	21.00			CD2	44.72	330	iPc	38	31.00	-0.7		ASA	52.58	13	eP	39	32.00	0.3
GYA	39.62	329	Pc	37	50.00	-0.5					pP	39	19.00	224kmX					e	40	17.60	201km
			S	43	42.00						iS	44	54.00			RMJ	52.59	12	eP	39	13.00	-18.7X
NOU	39.72	116	iPc	37	50.50	-0.7		MAT	44.76	12	eP	38	28.00	-3.9X					eS	46	45.00	
			iS	43	46.50						eS	44	54.00			TCW	52.92	137	P	39	33.10	-1.2
FKJ	39.92	1	Pd	37	54.80	2.1		TSK	44.86	14	eP	38	28.20	-4.4X		NEM	52.96	16	eP	39	34.00	-0.4
			eS	43	43.00			XAN	45.10	337	iPc	38	32.80	-1.8					S	46	51.00	
NOB	39.95	5	eP	37	52.00	-0.8					sP	39	42.00			MCO	53.04	158	iPd	39	36.80	1.9
			S	43	47.00						PP	40	28.00						eS	40	21.00	
NGS	39.99	2	Pc	37	53.20	0.0					S	45	00.00			ABJ	53.26	14	eP	39	35.00	-1.7
			S	43	48.40			MIT	45.10	14	eP	38	30.00	-4.5X					S	46	53.80	
WHN	40.02	341	iPc	37	53.00	-0.5					eS	44	59.00			WEL	53.29	137	P	39	34.50	-2.5
			pP	38	42.00	234kmX		WAJ	45.35	10	eP	38	38.00	1.6			Z 18s		165.00um			7.1Msz
			sP	39	05.00						S	45	07.00				N 20s		213.00um			
			PP	39	35.00			AIK	46.20	11	eP	38	46.00	2.8			E 20s		213.00um			
			S	43	49.50			FKS	46.42	14	eP	38	48.00	3.1X					PcP	40	29.00	
			ScS	47	32.00						eS	45	22.00						iS	47	00.00	
KUM	40.10	3	eP	37	56.00	1.9		DL2	46.51	353	P	38	44.60	-1.0					ScS	49	14.00	
			eS	43	49.00						pP	39	34.00	230kmX		GTA	53.49	333	iPc	39	37.80	-0.9
ASZ	40.21	6	eP	37	54.00	-1.0					sP	39	57.00						pP	40	24.00	206km
			e	43	54.30						PP	40	35.00						S	47	00.00	
NJ2	40.26	348	Pc	37	55.20	-0.3					S	45	16.00			PKI	54.03	312	iPc	39	41.60	-1.4
			pP	38	43.00	227kmX					sS	46	41.00			KKN	54.24	312	iPc	39	43.20	-1.3
			S	43	51.00			YAM	46.86	13	eP	38	51.00	2.6		DMN	54.27	312	iPc	39	43.80	-0.9
PVC	40.44	109	iPc	37	56.20	-0.9		SEN	47.00	14	eP	38	53.00	3.6X		GBA	54.51	292	P	39	44.10	-2.1
OIT	40.59	4	ePd	38	00.00	1.9					S	45	28.80			GNZ	54.52	133	P	39	45.00	-1.0
			eS	44	00.00			ISN	47.25	14	eP	38	54.00	2.6					S	47	14.30	
KMI	40.74	323	iPc+	38	01.00	1.2					eS	45	31.00			HYB	54.86	297	iPc	39	46.00	-2.8
	1.0s		48.10nm			5.0mb X		TIY	47.26	343	Pc	38	50.30	-1.3			1.0s		1340.00nm			6.6mb
	E 14s		108.00um								pP	39	37.00	215kmX					iS	47	14.00	
			pP	38	32.00	139kmX					PP	40	40.00			KUR	55.35	17	iPc	39	50.00	-1.8
			sP	38	44.00						S	45	33.00				1.3s		4170.00nm			7.0mb
			PP	39	37.00			OFU	47.96	14	eP	38	57.00	0.2					epP	40	35.00	199km
			S	44	01.00						S	45	42.50						esP	40	58.00	
			sS	44	20.00			AKI	48.21	12	eP	39	02.00	3.2X					iS	47	24.00	
FKK	40.85	3	eP	38	01.00	0.7					eS	45	48.00						eSS	51	08.00	
			eS	43	57.00			BJI	48.52	348	Pc	39	00.00	-1.1		YSS	55.75	12	eP	39	53.00	-1.6
MRT	40.87	8	eP	38	01.00	0.5			2.0s		1850.00nm			6.2mb			0.8s		1280.00nm			6.7mb
			eS	44	01.00				E 19s		55.50um						Z 20s		74.60um			6.8Msz
KOC	41.09	7	eP	38	01.00	-1.2					pP	39	28.00	120kmX			N 20s		90.00um			
			e	38	50.00	233kmX					sP	39	46.00				E 20s		26.00um			
SHN	41.26	4	ePd	38	03.00	-0.6					PP	40	59.00						iS	47	27.00	
			eS	44	05.00						PPP	41	47.00			CBZ	56.03	151	eP	40	00.00	3.4X
SHJ	41.31	10	eP	38	04.00	0.0					eS	45	50.00			AFI	59.27	102	iPc	40	20.00	0.2
			e	38	47.00	201km					sS	46	40.00						ePcP	41	00.00	
IZU	41.43	1	eP	38	03.00	-2.0					ScS	48	39.00						e(PPP)	43	08.00	
			eS	44	11.00			MIY	48.57	14	eP	39	04.00	2.5					eS	48	20.00	
TKS	41.73	8	eP	38	07.00	-0.5					S	45	53.10						(ScS)	51	00.00	
			e	44	14.00			LZH	48.95	334	iPc+	39	04.00	-0.8		POO	59.43	297	iPc	40	18.80	-2.0
HIR	41.78	5	eP	38	07.00	-0.8			E 14s		33.00um					DRV	59.69	175	eP	40	20.80	-1.0
			eS	44	14.00						ipP	39	53.00	224kmX		NDI	60.80	309	iPc	40	27.00	-3.0X
TKM	41.91	7	eP	38	08.00	-0.9					PP	40	59.50				1.0s		790.00nm			6.4mb
			eS	44	15.00						PPP	42	02.00			NUE	61.11	108	P	40	31.60	-0.6
SHK	41.97	6	ePc	38	08.00	-1.4					PcS	44	19.00			ZAK	61.50	342	iPc	40	34.00	-0.2
			eS	44	15.00						iS	45	51.00				2.4s		7910.00nm			7.1mb
OKA	42.25	7	eP	38	12.00	0.3		CRZ	48.95	130	eP	39	04.00	-0.6					eS	48	40.00	
			e	44	19.00			NDF	49.07	107	ePc	39	05.00	-0.7		TUP	62.03	355	ePc	40	36.90	-0.7
HMD	42.27	5	eP	38	07.00	-4.8X		HAC	49.30	13	eP	39	06.00	-1.1			2.2s		750.00nm			6.1mb
			e	38	59.00	248kmX					eS	46	00.00			SKR	62.73	20	iPd	40	43.60	1.2
OSK	42.43	9	eP	38	14.00	0.8		VUN	50.06	107	iPd	39	12.30	-0.9			0.5s		190.00nm			6.2mb
			eS	44	16.00			SVA	50.06	107	ePc	39	13.20	0.0			Z 18s		46.90um			6.7Msz
OSA	42.47	9	eP	38	15.00	1.5		HAK	50.36	12	eP	39	15.00	-0.1			N 18s		29.60um			
HIM	42.51	8	eP	38	14.00	0.3					e	46	18.30				E 18s		35.60um			
			eS	44	24.00			HHC	50.42	344	iPc	39	16.00	0.2					ipP	41	27.00	186kmX
KYO	42.83	9	eP	38	17.00	0.6					PP	41	14.00						iPP	43	02.00	
			eS	44	28.00						S	46	22.00						iPPP	44	34.00	
MTS	42.92	6	P	38	19.80	2.7		VLA	50.44	4	iPd	39	16.00	0.3					iS	49	00.00	
TOT	43.10	7	eP	38	19.00	0.4		BTO	50.64	342	iPc	39	15.50	-1.9		WMO	62.77	328	iPc	40	42.20	-0.7
			e	44	32.00						pP	40	05.00	225kmX					iS	49	00.50	
HIK	43.17	10	eP	38	20.00	0.9					sP	40	32.00			IRK	62.88	344	ePc	40	42.50	-0.8
			eS	44	33.00						S	46	15.00				1.4s		1860.00nm			6.7mb
NAG	43.19	11	eP	38	22.00	2.7		CN2	51.06	357	iPc	39	18.00	-2.4					ePcP	41	21.00	
TYK	43.21	8	eP	38	20.00	0.6					ipP	40	06.50	220kmX					epP	41	28.00	195km
TAT	43.63	14	eP	38	36.00	13.2X					sP	40	3[illegible].00						eS	49	00.00	
IID	43.69	11	eP	38	26.00	2.6					S	46	7[illegible].00			MOY	63.34	341	eP	40	45.20	-1.1
			e	38	41.00	58kmX		SUT	51.20	11	eP	39	21.00	-0.4			1.1s		480.00nm			6.2mb
SAI	43.69	6	eP	38	23.00	-0.3					S	46	28.70						eS	49	05.00	
			S	44	40.40			LSA	51.26	318	iPc	39	22.50	-0.2		PET	65.57	20	iPc	40	59.00	-1.6
KYS	43.90	14	eP	38	22.90	-2.1					pP	40	09.50	212kmX			1.2s		3200.00nm			7.0mb
OYM	43.90	13	eP	38	23.80	-1.3					S	46	19.50				Z 18s		52.50um			6.8Msz

24d 05h

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     N  21s    34.20um
     E  21s    34.00um
                ePcP  41 30.00
                eS    49 30.00
                eSP   49 50.00
                eScS  50 30.00
                eSS   53 46.00
KSH    67.07 318 iPc   41 11.00   0.4
                pP    42 00.00 209kmX
PRZ    67.20 322 iPd   41 11.80   0.4
     1.8s  3800.00nm          6.8mb
                eS    49 54.00
                eScS  50 52.00
NRN    68.11 320 iPc   41 16.00  -1.3
                eS    50 03.00
TLG    68.26 322 iPc   41 18.20   0.4
     1.7s  1070.00nm          6.3mb
                ipP   42 08.00 212kmX
                ePP   43 54.00
                iS    50 07.00
AAA    68.53 322 iPc   41 18.80  -0.7
     8.0s    47.00nm          4.3mb X
KHO    69.13 315 iPc   41 22.00  -1.4
     6.0s  *******nm          7.2mb X
     Z  18s    75.00um          7.0Msz
     N  18s    18.40um
     E  18s    46.60um
                ePP   43 53.00
                eS    50 14.60
YAK    69.26   1 iPc   41 22.30  -1.1
     0.8s  3790.00nm          7.2mb
                ipP   42 08.20 193km
                ePP   44 05.20
                ePPP  45 43.20
                iS    50 17.20
                eSP   50 31.00
                iScS  51 05.60
                eSS   54 43.20
MGD    69.69  12 iPc   41 25.20  -0.9
     0.8s  1560.00nm          6.8mb
                iPcP  41 45.00
                ipP   42 10.00 188kmX
                isP   42 32.00
                iPP   44 08.00
                iS    50 20.20
FRU    69.72 321 iPc   41 26.80   0.0
     2.4s  6900.00nm          7.0mb
     Z  25s    64.50um          6.8MszX
     N  24s    76.70um
     E  24s    71.70um
                ePcP  41 52.30
                epP   42 13.00 195km
                ePPP  45 48.00
                eS    50 23.00
                eScS  51 12.00
                eSS   54 48.00
ELT    70.07 335 iPc   41 27.20  -1.3
     1.0s  2910.00nm          7.0mb
                iS    50 23.00
ANR    70.12 318 iPc   41 28.40  -0.8
     1.6s  7100.00nm          7.1mb
                iS    50 28.20
KUL    70.58 314 iPc   41 30.10  -1.9
     7.8s  8000.00nm          6.5mb X
                ePP   44 04.30
                iPS   51 23.80
GAR    70.68 316 iPc   41 31.50  -1.2
     1.2s    70.00nm          5.3mb X
                iPcP  41 45.10
                iPPP  45 52.30
                iS    50 32.30
                iScS  51 18.30
                iSS   55 10.00
RAR    70.68 110 P     41 32.00  -0.9
                S     50 36.00
SEM    70.94 330 iPc   41 33.40  -0.4
     7.8s  *******nm          7.1mb X
                ipP   42 21.60 203km
                iS    50 35.00
SMY    71.52  27 eP    41 38.60   1.4
DSH    71.56 315 iPc   41 37.00  -0.9
     Z  21s   114.00um          7.1Msz
TAS    72.43 317 iPc   41 42.30  -0.6
     1.4s  *******nm          7.4mb
     Z  18s    48.00um          6.8Msz
                ePP   44 28.30
                eS    50 57.00
                eSPP  51 31.30
                eSSS  58 44.00
NVS    72.48 335 iPc   41 41.00  -1.8
     2.0s  4900.00nm          6.9mb
                iS    50 53.70
SEY    72.56  11 iPc   41 42.60  -0.6
     1.5s  1220.00nm          6.4mb
                ipP   42 28.40 191km
                iS    50 58.40
                iSPP  51 35.40
                ePS   51 48.40
SBA    73.15 172 eP    41 46.30   0.4
                iS    51 04.00
SAM    73.29 315 iPc   41 47.70  -0.3
     9.0s  *******nm          7.2mb X
                isP   42 54.50
                iSPP  51 44.00
MAW    73.87 201 iPd   41 51.90   1.2
ADK    75.52  32 eP    42 01.20   0.8
KHI    77.51 307 ePc   42 12.00  -0.1
MHI    77.53 310 iPc+  42 12.20   0.2
     1.4s  3890.00nm          6.9mb
HON    77.84  66 P     42 15.00   1.2
KIP    77.86  66 P     42 15.50   1.6
AVY    78.58 252 iPc   42 18.40   0.2
TIK    78.91   0 iPc   42 16.50  -2.1
     0.8s  1000.00nm          6.6mb
                epP   43 04.00 196km
                esP   43 24.00
                eS    52 00.00
ASH    78.93 311 eP    42 20.00   0.5
     5.0s  *******nm          7.3mb X
     Z  20s    63.80um          7.0Msz
                ePcP  42 25.00
                ePP   45 21.00
                ePPP  47 20.00
VAN    79.11 311 eP    42 20.00  -0.5
                ePP   45 30.00
                eS    52 06.00
TBI    80.14 112 iP    42 27.70   1.5
     1.1s  1120.00nm          6.5mb
                epP   43 15.00 194km
NKI    80.21  33 eP    42 26.70   0.8
AFR    80.28 107 iP    42 28.20   1.2
                epP   43 16.00 196km
PAE    80.46 107 iP    42 29.20   1.3
                epP   43 16.00 192km
PPT    80.47 107 iP    42 29.50   1.5
                epP   43 17.00 195km
PPN    80.61 107 iP    42 30.00   1.3
                epP   43 18.00 197km
TVO    80.76 107 iP    42 31.50   1.9
     1.2s   785.00nm          6.3mb
KAT    80.86 312 iPc   42 31.50   1.8
     8.0s  *******nm          7.3mb X
                epP   43 22.50 210kmX
                ePP   45 30.00
                eS    52 26.50
                eSPP  53 27.00
SHI    81.30 301 eP    42 31.00  -1.4
NRI    81.47 347 iPc   42 31.20  -1.0
     0.9s   580.00nm          6.3mb
                epP   43 14.00 173kmX
                eS    52 29.00
                eSPP  53 33.00
                eSS   57 43.00
PMO    82.31 104 iP    42 39.10   1.5
     1.2s  1570.00nm          6.6mb
                epP   43 28.00 200km
VAH    82.54 104 iP    42 40.00   1.2
     1.2s   685.00nm          6.3mb
                epP   43 29.00 201km
TPT    82.58 104 iP    42 40.50   1.5
     1.2s   880.00nm          6.4mb
                epP   43 30.00 203km
SPA    82.61 180 iPd   42 38.20  -0.2
     1.0s    70.00nm          5.3mb X
     Z  18s    50.00um          6.9Msz
RUV    82.78 104 iP    42 41.20   1.2
     1.2s   490.00nm          6.1mb
                epP   43 31.00 204km
TEH    83.68 307 eP    42 48.00   3.6X
ILT    83.92  18 iPc   42 44.00  -0.8
     1.2s  1500.00nm          6.6mb
                ipP   43 34.00 204km
                iPPP  47 59.00
SVE    84.19 329 iPc   42 46.00  -0.3
     2.1s  6560.00nm          7.0mb
     Z  18s    49.00um          6.9Msz
     N  18s    40.00um
     E  18s    30.50um
                epP   43 33.00 191km
                eS    52 59.00
ARU    85.08 328 iPc   42 50.00  -0.7
     8.0s  *******nm          7.0mb X
     Z  22s    44.00um          6.8Msz
     N  18s    17.00um
     E  18s    32.00um
                epP   43 38.50 197km
                esP   43 58.00
                ePP   46 14.00
                ePPP  48 02.00
SDN    85.68  33 eP    42 53.10  -0.6
KER    86.81 305 eP    42 53.00  -6.9X
ANM    86.86  23 eP    42 58.90  -0.4
NPA    87.02 255 iPd   43 03.00   1.9
                eS    53 19.00
TAB    88.14 309 iP+   43 07.00   0.8
MAK    88.28 314 iPc   43 07.50   1.0
     6.0s  *******nm          7.3mb X
     Z  17s    43.00um          6.9MszX
     N  21s    30.00um
     E  15s    34.00um
                iPP   46 35.00
                iS    53 39.00
GRS    88.40 310 iPc   43 07.20  -0.3
     5.0s  *******nm          7.0mb X
                ipP   43 59.00 210kmX
                iPP   46 44.00
                eSKS  53 19.00
                iS    53 42.40
KRV    88.62 311 iP    43 09.00   0.7
                iS    53 40.00
BHD    88.85 304 ePd   43 14.00   4.6X
                ePP   46 49.00
                e     49 26.50
                iS    53 45.50
                ePS   54 48.00
                i     55 05.00
                i     56 15.00
GRO    89.60 314 iPc   43 12.00  -0.7
     1.5s  2300.00nm          6.9mb
     Z  22s    46.00um          6.9Msz
     N  23s    52.00um
     E  16s     6.50um
                ipP   44 02.00 202km
                iS    53 42.00
                iSP   54 50.00
SVW    89.88  28 eP    43 14.00   0.3
ERE    89.91 310 iPc   43 13.50  -0.9
TTA    90.20  26 eP    43 14.70  -0.5
MSL    90.35 306 ePd   43 16.00  -0.4
                i     43 20.00  12kmX
                i     44 09.00
                iPPP  46 16.00
                iS    50 05.50
                iSS   53 26.50
                iSSS  54 56.50
LEN    90.50 311 iPc   43 19.00   1.8
     2.0s   900.00nm          6.4mb
                iPP   47 03.00
                iPPP  49 00.00
AAE    90.53 279 iP    43 19.50   1.5
KDC    90.61  32 eP    43 17.20   0.2
BKR    90.90 312 iPc   43 20.00   1.0
     1.6s  1100.00nm          6.6mb
                ipP   44 10.00 202km
                iPP   46 54.00
                iS    53 52.00
NAI    91.16 269 iPc   43 23.00   2.1
     1.0s    30.00nm          5.3mb X
                iS    43 44.00
NVL    91.39 197 iP    43 21.00   0.5
     Z  18s     2.15um          5.6MszX
                ipP   44 09.00 193km
                isP   44 30.00
                iSKS  53 42.00
PYA    91.59 314 iPc   43 21.00  -0.9
     2.0s  1650.00nm          6.7mb
                ipP   44 12.00 206km
                eSSS  03 56.00
IMA    91.99  24 eP    43 22.40  -1.1
PMR    93.04  28 eP    43 26.90  -1.2
     Z  20s    40.00um          6.9Msz
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24d 05h

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RKT     93.40 114 iP     43 33.60   3.0X
         1.0s   260.00nm          6.3mb
SOC     93.93 313 eP     43 30.50  -2.2
         3.0s  1500.00nm          6.6mb
      Z  24s    65.00um          7.0MszX
                iPP    44 20.00 199km
                iSKS   53 40.00
                iS     54 18.00
                eSP    55 44.00
                iSPP   56 20.00
MTD     94.10 253 eP     43 33.00  -1.1
                ePP    48 23.00
                iPKKP  00 36.00
KHE     94.10 351 iPc    43 34.00   1.2
         5.0s  6000.00nm          7.0mb X
      Z  22s   125.00um          7.3Msz
      N  22s    30.00um
      E  22s    66.00um
                ipP    44 21.00 188kmX
                iPP    47 23.00
                iSKS   53 54.00
                iS     54 27.00
COL     94.17  25 eP     43 31.00  -2.3
         1.3s   591.00nm          6.6mb
      Z  23s    75.00um          7.1MszX
                eS     54 17.00
FBA     94.17  25 eP     43 31.10  -2.2
TOA     94.50  28 e(P)   43 34.60  -0.4
EVA     94.75 243 iPd    43 38.50   1.4
SLR     95.60 243 iPd    43 41.20   0.3
         0.9s    53.80nm          5.8mb
      Z  22s    44.40um          6.9Msz
BPI     95.73 243 iPd    43 42.30   0.7
                i        43 55.00  42kmX
ANN     95.79 314 iPc    43 39.00  -2.1
         9.0s  8000.00nm          7.0mb X
      N  25s   114.00um
      E  22s    55.00um
                ePPS   57 01.00
KRI     95.95 252 eP     43 43.00   0.4
                iPP    48 23.00
                iPKKP  00 38.00
MGI     96.21 302 eP     43 46.00   2.6
BUL     96.32 249 iPc    43 44.00  -0.3
                eS     54 12.00
                ePKKP  00 37.00
JER     96.36 301 eP     43 46.50   2.4
MOS     96.38 325 eP     43 43.00  -0.5
         3.0s  7000.00nm          7.5mb
      Z  17s    52.80um          7.1MszX
      N  20s    41.00um
      E  18s    50.20um
                epP    44 31.00 193km
                iPP    47 43.00
                iPPP   49 44.00
                eSKS   54 04.00
                iS     54 45.00
                iSP    56 04.00
                iSS    01 20.00
BFS     96.68 242 iPd    43 43.70  -2.1
         0.8s   403.00nm          6.8mb
BLF     96.74 240 iPd    43 47.50   1.4
                i        44 48.00 248kmX
RMN     96.74 300 eP     43 48.00   2.2
KSR     96.79 243 eP     43 44.90  -1.5
OBN     96.93 325 iPc    43 44.90  -1.1
         1.2s   720.00nm          6.9mb
      Z  28s   105.00um          7.2MszX
      N  28s    73.00um
      E  28s   101.00um
                ipP    44 36.00 206km
                iPP    47 50.00
                iSKS   54 08.00
                iPS    56 32.00
                iPPS   57 30.00
                iSS    01 30.00
                iSSS   05 20.00
HVD     97.00 238 iPd    43 49.50   2.3
PCA     97.20  30 eP     43 47.00  -0.3
SWZ     97.90 241 eP     43 51.00  -0.3
SIM     98.05 314 ePc    43 49.00  -2.3
      Z  28s    87.00um          7.1MszX
      N  28s   132.00um
      E  28s   130.00um
                ipP    44 39.00 202km
                iPP    47 59.00
                ePPP   50 09.00
                iSKS   54 13.00
APA     98.67 337 iPc    43 59.30   5.6X
         1.2s   260.00nm          6.5mb
                iSKS   54 16.80
                iS     54 59.00
HLW     99.54 299 iPc    44 04.00   5.5X
      Z  23s     4.00um          5.9MszX
SIT     99.76  33 eP     43 59.90   1.1
INK     99.97  22 ePc    43 57.80  -1.8
         1.3s   223.00nm          6.4mb
                pP     44 49.00 207km
PUL    100.33 329 iPdiff44 05.00   3.7X
         6.0s  3300.00nm          7.0mb X
      Z  22s    51.00um          7.0Msz
      N  22s    54.00um
      E  24s    54.00um
                iPP    48 18.00
                iSKS   55 16.00
                eS     55 24.00
SUR    100.44 235 iPdiff44 07.00   4.2X
         1.1s   304.00nm          6.7mb
      Z  21s    95.30um          7.3Msz
GPA    100.73 310 ePdiff44 04.80   1.1
KEV    100.79 340 ePdiff44 03.00  -0.2
         1.0s   10^ 00nm          6.3mb
                i        44 14.00
                ePP    47 40.00
                eSKS   54 24.00
                eS     55 20.00
                iPKKP  00 27.50
ALT    100.87 308 ePdiff44 10.00   5.6X
ELL    100.99 306 iPdiff44 06.00   1.0
KJF    101.20 334 iPdiff44 03.00  -2.1
         1.0s   264.00nm          6.7mb
                i        44 15.20
                iPP    48 26.00
                eSKS   54 36.00
                iPKKP  00 16.00
HRT    101.22 310 ePdiff44 09.00   3.1X
SOD    101.26 337 iPdiff44 05.60   0.3
                iSKP   47 24.40
                iPP    48 10.90
                ePKKP  00 14.00
ISK    101.69 310 ePdiff44 06.30  -1.5
KIS    101.72 316 iPdiff44 10.00   2.2
         5.0s  1400.00nm          6.8mb X
      Z  25s    33.00um          6.8MszX
                iSKS   54 32.00
                iS     55 30.00
DST    102.02 309 ePdiff44 08.00  -1.4
SUF    102.07 333 iPdiff44 07.70  -1.3
KBS    102.18 350 iPdiff44 09.90   0.7
CFR    102.27 315 ePdiff44 02.00  -8.3X
PSN    102.29 313 iPdiff44 15.00   4.6X
YER    102.30 306 ePdiff44 12.60   1.9
TLB    102.38 314 ePdiff44 16.00   5.2X
MBC    102.46  13 ePdiff44 09.50  -1.0
         0.7s    64.00nm          6.4mb
PPE    102.61 316 ePdiff44 05.00  -6.8X
CLI    102.83 316 ePdiff44 29.00  16.2X
MFT    103.04 310 ePdiff44 16.00   2.0
NUR    103.08 330 iPdiff44 15.10   1.6
         1.0s    94.00nm          6.5mb
                i        44 23.90
IZM    103.10 308 ePdiff44 17.30   3.1X
VRI    103.25 315 ePdiff44 17.00   2.3
ISR    103.41 315 ePdiff44 20.00   4.5X
JMB    103.51 312 iPdiff44 15.00  -0.9
                iPP    48 40.00
TRO    103.58 340 ePdiff44 15.50   0.0
EZN    103.79 309 ePdiff44 18.00   0.8
MLR    103.82 315 ePdiff44 16.50  -0.9
BUC1   103.82 314 ePdiff44 18.00   0.8
DIM    104.27 311 ePdiff44 30.00  10.7X
KDZ    104.46 311 iPdiff44 19.00  -1.2
PVL    104.51 313 iPdiff44 23.00   2.7X
LVV    104.75 319 iPdiff44 27.50   6.3X
         9.2s  4200.00nm
      Z  20s    36.30um          6.9Msz
      N  20s    46.20um
      E  19s    28.00um
                ePP    48 52.00
                eSKS   55 28.00
                iS     55 57.50
                iSP    57 29.00
                iPS    57 53.00
ALE    104.83   1 ePdiff44 21.00   0.1
         0.6s     8.00nm          5.9mb
COZ    104.95 315 ePdiff44 27.00   4.5X
CJR    105.35 316 ePdiff44 28.00   4.0X
MMB    105.68 311 ePdiff44 28.00   2.4
ATH    105.90 307 iPdiff44 24.00  -2.6X
                iPP    48 56.00
                iSKS   55 00.00
VTS    105.99 312 ePdiff44 30.00   3.1X
WAR    106.32 322 ePdiff44 35.00   6.9X
                eS     49 05.00
VAY    106.57 311 iPdiff44 32.00   2.5X
UPP    106.65 330 iPdiff44 33.10   3.8X
                iPP    49 03.40
SSR    106.83 315 ePdiff44 32.00   1.4
JOS    107.19 318 ePdiff44 33.00   0.9
         2.0s   130.00nm          6.7mb
SPC    107.28 319 e(Pdiff44 34.60   1.9
      Z  20s    64.50um          7.2Msz
                i        49 07.30
KRA    107.34 320 iPdiff44 33.00   0.3
      Z  36s   254.00um          7.5MszX
      N  46s   373.00um
      E  72s   552.00um
                e        44 35.00
                i        44 39.60
                e        44 45.00
                e        44 47.50
                i        49 12.00
                iS       55 11.00
                i        57 43.00
SKO    107.35 312 iPdiff44 32.00  -1.0
                i        48 41.90
                i        49 07.00
PGC    107.70  41 ePdiff44 41.20   6.9X
PGC    107.70  41 ePKP  48 49.00   7.7X
PSZ    107.70 318 e(Pdiff44 39.00   4.5X
OHR    107.92 311 ePdiff44 39.00   3.4X
                i        47 57.10
                i        55 02.70
BUD    108.35 318 e(Pdiff44 39.00   1.7
FHC    108.35  50 ePdiff44 40.50   3.0X
FHC    108.35  50 ePKP  48 51.00   8.1X
DAG    108.46 352 iPdiff44 35.20  -1.9
         0.7s     8.22nm          6.1mb
                i        49 14.00
HFS    108.47 331 ePdiff44 36.20  -1.3
         0.6s    11.00nm          6.3mb
SRO    108.77 318 ePdiff44 44.00   4.9X
                e        45 30.00
                e        47 54.00
                e        49 24.00
TTG    108.91 312 e(Pdiff44 41.00   1.2
                e        48 01.00
                e(S)     54 47.00
YKA    108.96  26 ePdiff44 43.40   3.8X
YKA    108.96  26 ePKP  48 44.80   1.5
YKC    109.02  26 ePdiff44 45.00   5.1X
         1.1s    66.00nm
YKC    109.02  26 ePKP  48 43.00  -0.4
         0.8s   115.00nm
NB2    109.33 333 Pdiff 44 41.70   0.4
         0.8s    22.90nm
WDC    109.47  50 ePdiff44 45.30   2.9X
WDC    109.47  50 ePKP  48 52.00   7.0X
                eSP    58 56.50
KSP    109.48 321 ePdiff44 45.00   2.8X
         0.8s    72.00nm
                e        48 17.00
                i        48 57.00
                i        49 25.00
ZST    109.50 319 ePdiff44 46.90   4.5X
                e        48 20.20
                i        48 58.20
BNG    109.96 272 iPdiff44 48.30   3.1X
         0.5s   142.00nm
VKA    110.00 319 ePdiff44 49.00   4.4X
         4.5s   739.00nm
                pP       45 38.00
                SP       45 59.00
                e        48 18.20
                e        48 47.40
VKA    110.00 319 iPKPd 48 57.90  12.1X
      Z  20s    12.40um          6.5Msz
                iPP      49 26.80
                ipPP     50 11.80
                iS       56 46.00
                isS      58 07.00
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BKS   110.02  52 Pdiff 44 50.00   5.1X
       1.0s     87.00nm
BKS   110.02  52 ePKP  48 46.50   0.4
    Z  20s     82.00um          7.3Msz
    N  20s     59.00um
    E  20s     73.00um
                 ePP   49 30.00
                 eSKS  55 20.00
                 ePS   58 39.00
                 ePKKP 59 58.00
                 eSS   04 50.00
                 ePSPS 05 50.00
                 eP'P' 09 44.00
LCI   110.15 310 ePKP  48 56.00   9.7X
MIN   110.21  50 ePdiff44 48.00   2.1
MIN   110.21  50 PKP   48 55.00   8.4X
                 SP    59 01.00
                 PKKP  59 57.00
COP   110.47 327 ePdiff44 49.00   2.6X
    Z  20s     56.70um          7.1Msz
                 iS    56 51.00
MHC   110.54  53 ePdiff44 48.50   1.1
MHC   110.54  53 ePKP  48 54.20   6.9X
PRU   110.76 321 ePdiff44 52.50   4.6X
    Z  19s     50.30um          7.1Msz
    N  20s     57.40um
    E  20s     31.50um
                 e     45 43.00
                 e     48 32.00
                 i     48 59.50
                 PP    49 36.00
                 e     56 22.00
                 PKKP  58 41.00
BRG   110.92 322 ePdiff44 53.10   4.5X
       1.6s     70.00nm
                 epP   45 44.40
BRN   110.96 324 ePdiff44 50.00   1.3
                 epP   45 43.00
                 SKS   55 37.00
CLL   111.38 322 Pdiff 44 50.00  -0.6
                 pP    45 40.00
CLL   111.38 322 iPKP  48 59.70  11.5X
                 iPP   49 40.00
                 PKKP  00 04.80
JAS   111.42  52 ePdiff44 50.30  -0.9
JAS   111.42  52 ePKP  48 50.90   2.1
       1.1s      5.50nm
PRI   111.46  54 ePdiff44 54.00   2.5X
PRI   111.46  54 ePKP  48 56.50   7.4X
KMR   111.48 319 ePdiff44 58.00   6.9X
                 pP    45 46.00
KMR   111.48 319 (PKP) 48 36.00 -12.6X
                 iPP   49 37.00
KHC   111.58 320 Pdiff 44 56.50   4.9X
    N  27s     49.00um
    E  24s     37.60um
                 e     48 45.50
                 e     48 56.50
                 PP    49 42.60
                 e     50 32.00
                 SKS   55 30.00
                 e     56 32.00
                 PKKP  59 04.00
LJU   111.65 317 ePdiff44 55.00   3.0X
CEY   111.79 316 e(Pdiff44 58.00   5.4X
                 e     48 23.40
CEY   111.79 316 iPKP  48 50.50   1.3
                 i     49 01.40
NEW   111.91  41 ePdiff44 53.00  -0.1
NEW   111.91  41 ePKP  48 51.00   1.6
MUD   111.94 328 iPdiff44 57.70   4.8X
       0.8s     23.00nm
SGO   112.12 311 ePKP  48 30.00 -20.0X
FRI   112.12  53 ePdiff44 57.00   2.8X
FRI   112.12  53 ePKP  48 57.00   6.9X
RBL   112.22 317 ePdiff45 00.50   5.9X
KBA   112.22 318 ePdiff44 55.00   0.3
                 ipP   45 45.00
KBA   112.22 318 iPKPd 48 53.40   3.2X
       1.3s    278.00nm
                 iPP   49 35.20
                 ipPKP 49 41.80
                 i     50 06.40
TRI   112.25 316 iPdiff44 54.00  -0.6
TRI   112.25 316 iPKP  48 48.80  -1.2
                 iPP   49 01.60
                 eSKS  55 23.40
                 eSKKS 55 47.90
                 eS    56 40.90
                 ePPS  59 04.00
                 eSS   03 40.00
                 iSSS  07 58.00
BER   112.25 333 iPdiff45 00.00   5.8X
MOX   112.41 322 ePdiff44 58.00   2.8X
       3.3s    458.00nm
MOX   112.41 322 iPKPc 48 57.00   6.8X
                 e     49 22.00
                 iPP   49 48.00
                 iSKS  55 35.00
                 iSKKS 56 35.00
                 iSP   58 30.00
                 iPS   59 08.00
                 i     01 15.00
                 iSS   05 35.00
                 e     09 13.00
HAM   112.55 325 iPdiff45 02.00   6.3X
DUI   112.56 312 ePKP  48 39.00 -11.8X
EDM   112.80  35 ePdiff44 56.40  -0.6
EDM   112.80  35 iPKPc 48 52.30   1.3
       0.8s    290.00nm
GRF   112.92 321 ePdiff44 58.00   0.5
    Z  21s     49.80um          7.1Msz
GRF   112.92 321 ePKP  49 02.00  10.7X
                 ePP   49 54.00
                 eS    57 15.00
                 e     58 32.00
LDM   113.02  40 ePKP  48 52.00   0.4
MNA   113.13  51 ePdiff45 03.00   4.1X
MNA   113.13  51 ePKP  49 00.30   8.0X
CLX   113.21  41 ePKP  48 51.40  -0.8
ISA   113.28  54 ePdiff45 06.00   6.4X
ISA   113.28  54 ePKP  48 53.00   0.5
                 e     49 52.00
FUR   113.30 319 ePKP  48 51.60  -0.5
       0.9s    779.00nm
    Z  20s     37.20um          7.0Msz
POI   113.49 313 ePKP  48 50.00  -2.6
CWC   113.49  54 ePdiff45 15.00  14.4X
CWC   113.49  54 ePKP  48 58.00   4.9X
                 e     49 51.00
GIB   113.52 308 ePKP  48 56.00   3.0X
CTI   113.60 317 ePdiff45 06.00   5.2X
                 e     48 52.00
MNS   113.72 313 ePdiff45 06.00   4.8X
                 e     48 52.00
PAS   113.73  56 ePdiff45 06.00   4.5X
       1.0s    100.00nm
                 e     45 54.00
                 e     48 54.00
                 e     52 27.00
                 iS    55 29.00
                 eS    59 51.00
                 eS    00 50.00
MWC   113.81  56 ePdiff45 06.00   3.9X
                 e     46 16.00
MWC   113.81  56 ePKP  48 54.00   0.2
                 e     49 00.00
                 e     49 50.00
OGA   113.81 318 iPKPd 48 54.40   1.0
       1.0s    500.00nm
RDP   113.82 312 ePKP  48 40.50 -12.9X
RMP   113.82 312 ePdiff45 02.00   0.3
                 e     49 50.00
                 e     55 40.00
CLC   113.97  54 ePdiff45 16.00  13.4X
CLC   113.97  54 ePKP  48 55.00   1.1
                 e     49 00.00
RVR   114.40  56 ePdiff45 10.00   5.5X
RVR   114.40  56 ePKP  48 56.00   1.3
                 e     49 50.00
FIR   114.43 315 ePdiff45 02.00  -2.3
                 iPP   49 06.00
                 iSKS  55 31.00
                 iS    56 50.00
TNS   114.46 322 ePdiff45 11.80   7.4X
                 e     48 54.30
SAL   114.47 317 e(Pdiff45 09.00   4.5X
                 e     48 45.00
WIT   114.62 325 ePdiff45 19.00  14.1X
                 e     48 57.00
WIT   114.62 325 iPKPd 49 07.90  13.5X
                 ePP   50 03.00
                 ePPP  52 27.50
                 ePKKP 59 42.50
EUR   114.62  50 iPdiff45 09.00   3.3X
       1.0s      5.77nm
ERC   114.63 308 ePKP  48 55.50   0.6
GSC   114.68  55 ePdiff45 09.00   3.2X
                 e     45 20.00
                 e     46 23.00
GSC   114.68  55 ePKP  48 56.00   0.7
                 e     50 03.00
SAX   114.81 319 ePKP  48 54.80  -0.6
WTS   114.83 324 ePdiff45 12.00   6.1X
                 e     48 56.50
WTS   114.83 324 iPKP  49 06.80  11.9X
                 ePP   50 04.00
                 ePPP  52 18.00
                 ePKKP 59 24.50
PLM   114.91  57 ePdiff45 15.00   8.0X
PLM   114.91  57 ePKP  48 56.00   0.1
NOP   115.08  54 ePdiff45 11.50   3.9X
NOP   115.08  54 ePKP  48 56.60   0.6
SES   115.09  37 ePdiff45 06.00  -1.2
BUH   115.09 321 ePdiff45 10.80   3.5X
BUH   115.09 321 ePKP  48 54.50  -1.1
BAR   115.16  57 ePdiff45 25.00  17.1X
BAR   115.16  57 ePKP  48 58.00   1.8
                 e     49 03.00
                 e     50 10.00
SLE   115.21 320 ePKP  48 54.50  -1.3
ZUL   115.36 319 ePKP  48 55.00  -1.1
GWF   115.38 321 iPdiff45 12.40   3.9X
VG1   115.63 316 e(Pdiff45 05.00  -4.6X
VG1   115.63 316 ePKP  48 58.50   1.9
LRM   115.63  43 ePdiff45 11.60   1.6
PRN   115.73  52 ePdiff45 10.00  -0.5
PRN   115.73  52 ePKP  48 56.20  -1.1
DBN   115.73 325 e(Pdiff45 10.00   0.1
    Z  22s     22.20um          6.7Msz
                 ePP   49 51.00
                 e     50 26.00
                 iPPP  52 18.00
                 iSKKS 56 51.00
                 ePS   59 32.00
                 eSS   06 25.00
                 eSSS  10 24.00
HPI   115.77  45 ePdiff45 20.00   9.3X
HPI   115.77  45 ePKP  49 00.20   2.8X
CDF   115.78 321 iPKPc 48 57.10   0.1
ENN   115.79 323 ePdiff45 16.50   6.3X
                 e     48 56.50
ENN   115.79 323 ePKP  49 09.00  12.3X
                 ePP   50 08.00
                 ePPP  52 34.00
                 ePKKP 59 30.00
ECH   115.92 320 ePdiff45 18.40   7.5X
WLF   116.05 322 Pdiff+45 21.00   9.6X
                 e     49 58.00
                 S     57 59.00
                 PKKP  59 36.00
                 SS    06 24.00
                 SSP   06 41.00
ORO   116.19 317 e(Pdiff45 11.50  -0.8
                 e     48 56.50
BSF   116.28 320 iPKPc 48 57.10  -0.8
CVF   116.42 314 iPKPc 48 58.40   0.1
       0.8s    106.00nm
HAU   116.50 320 iPKPc 48 57.70  -0.5
       1.0s    108.00nm
GLA   116.64  57 ePdiff45 21.70   7.2X
UCC   116.70 324 Pdiff+45 21.00   6.8X
UCC   116.70 324 PKP   49 00.70   2.2
                 e     50 01.00
                 PP    50 11.60
                 PPP   52 52.00
                 e     53 50.00
                 PKKP  59 37.00
DOU   116.83 323 Pdiff+45 21.00   6.2X
DOU   116.83 323 PKP   48 58.70   0.0
                 e     49 06.10
                 e     49 10.70
                 e     50 09.00
                 PPP   52 55.00
                 e     53 54.00
                 PPS   57 50.00
                 e     59 02.00
                 PKKP  59 33.40
AKU   117.29 345 iPKPc 49 00.20   1.1
       1.0s    208.00nm
FRF   117.71 316 iPKPc 49 00.20  -0.4
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24d 05h

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LMR   117.87 315 iPKPc 49 00.40  -0.5
LRG   117.94 316 iPKPc 49 00.80  -0.3
GDH   118.26   1 ePdiff45 27.00   6.3X
                 i     50 25.00
FFC   118.28  30 ePdiff45 22.00   0.8
FFC   118.28  30 ePKP  49 01.00  -0.4
       0.8s    51.00nm
LOR   118.33 320 iPKPc 49 01.30  -0.4
LBF   118.36 320 iPKPc 49 01.20  -0.6
BDW   118.50  45 ePdiff45 33.30  10.5X
       1.0s     4.60nm
BDW   118.50  45 ePKP  49 02.10  -0.4
       0.8s   155.00nm
GCA   118.52  52 ePKP  49 03.40   0.8
SMF   118.57 320 iPKPc 49 01.70  -0.5
SSB   118.59 318 ePKP  49 01.90  -0.4
SSF   118.63 320 iPKPc 49 02.00  -0.3
EKA   118.66 331 PKP   49 03.00   0.9
       0.7s    22.30nm
GRC   118.82 321 iPKPc 49 03.10   0.5
                 i     50 29.80
AVF   118.83 320 iPKPc 49 01.90  -0.8
RMU   118.98  52 ePKP  49 04.30   0.8
REY   119.50 345 ePKP  49 04.80   1.4
                 i     49 16.60
MZF   119.54 320 iPKPc 49 03.70  -0.4
       0.8s    54.80nm
TCF   119.75 320 iPKPc 49 04.20  -0.3
PV10  120.14  50 ePKP  49 06.10   0.3
LSF   120.20 320 iPKPc 49 04.70  -0.6
LDF   120.26 323 iPKPc 49 06.60   1.3
CAF   120.36 318 iPKPc 49 05.70   0.0
FLN   120.40 323 iPKPc 49 06.60   1.0
       1.2s   156.00nm
PV07  120.42  50 ePKP  49 06.70   0.4
RJF   120.57 319 iPKPc 49 06.00  -0.1
PV06  120.59  50 ePKP  49 07.00   0.4
GRR   120.79 323 iPKPc 49 07.60   1.3
LPO   121.03 318 iPKPc 49 07.10   0.2
LPF   121.06 323 iPKPc 49 06.70  -0.1
MFF   121.12 321 iPKPc 49 06.80  -0.2
LFF   121.23 319 iPKPc 49 07.40   0.1
       1.2s   144.00nm
DMU   121.27 331 iPKPc 49 06.70  -0.4
       1.0s  1120.00nm
DLE   121.44 330 iPKPc 49 06.20  -1.2
       1.0s   450.00nm
DCN   121.77 330 iPKPc 49 09.20   1.2
       0.9s   290.00nm
RSSD  121.82  42 ePKP  49 08.50  -0.2
ECP   121.97 329 iPKPc 49 09.60   1.2
       2.0s  1140.00nm
ECB   122.08 329 iPKPc 49 10.40   1.8
       1.7s   585.00nm
EPF   122.22 317 iPKPc 49 08.90  -0.4
ABA   122.31 309 iPKP  49 10.00   0.4
GOL   122.47  47 ePKP  49 10.20   0.0
     Z  21s    30.00um          6.9Msz
GLD   122.57  47 ePKP  49 10.80   0.5
       1.3s   460.00nm
     Z  21s    31.10um          6.9Msz
EBR   122.92 314 ePKP  49 12.00   1.4
                 ePP   50 52.00
ALQ   123.05  53 ePKP  49 12.00   0.6
     Z  20s    53.20um          7.2Msz
OFD   123.63 309 iPKP  49 10.00  -2.2
VAL   124.06 330 PKP   49 18.60   6.1X
LGR   124.37 317 ePKP  49 15.00   1.5
                 i     49 27.50
                 iPP   51 06.00
ALM   126.48 311 iPKPc 49 16.90  -0.8
       1.8s    22.20nm
                 iPP   49 20.00
                 iS    51 23.30
TOL   126.49 315 ePKP  49 16.00  -1.7
CRT   127.20 312 iPKP  49 19.70   0.5
                 i     49 23.30
ALR   127.23 310 iPKP  49 31.00  11.9X
STS   128.14 320 ePKP  49 21.00   0.3
                 eSn   52 26.00
LHC   128.38  31 ePKP  49 11.00  -9.9X
       0.9s   453.00nm
PTO   129.04 318 PKP   49 22.50   0.1
RRO   129.17  50 ePKP  49 28.80   5.9X
                 e     49 33.80
                 i     52 38.40
SFS   129.41 312 iPKPc 49 30.00   6.7X
                 iPP   51 57.00
                 iPKS  53 04.00
                 ePPP  55 20.00
                 i     04 14.00
                 iSS   09 00.00
                 i     16 05.00
JCT   129.68  56 ePKP  49 04.50 -19.6X
     Z  20s    67.40um          7.3Msz
IFR   129.68 308 iPKP  49 18.00  -6.2X
OCO   129.82  49 ePKP  49 27.00   2.9X
                 e     52 32.40
                 i     52 37.60
LIS   130.56 316 ePKP  49 26.00   0.6
TUL   130.92  48 iPKP+ 49 27.40   1.2
       0.8s   337.00nm
     Z  21s    27.80um          6.9Msz
                 e     52 34.90
SCH   131.27  11 ePKP  49 17.00  -9.3X
       0.7s   198.00nm
                 pP    52 34.00
RLO   131.37  48 e(PKP)49 27.60   0.5
GBO   131.39  48 e(PKP)49 28.90   1.8
ACX   132.26  74 ePKP  49 21.20  -8.0X
III   132.48  72 ePKP  49 21.40  -8.5X
IIC   132.49  70 ePKP  49 28.20  -1.9
TAC   132.60  71 iPKP  49 27.80  -3.2X
IIP   132.87  71 ePKP  49 22.80  -8.0X
FVM   133.76  43 ePKP  49 19.30 -12.2X
       1.0s   490.00nm
     Z  19s     5.30um          6.3Msz
VBA   133.77 169 ePKP  49 19.00 -12.6X
                 e     52 51.00
VHO   135.20  73 iPKP  49 25.00 -10.1X
TACH  135.30 157 iPKP  49 23.70 -10.9X
BACH  135.74 157 ePKP  49 26.00  -9.5X
FCH   135.83 158 iPKPc 49 28.00  -8.1X
PEL   135.85 157 iPKPc 49 23.90 -11.8X
OTT   136.92  25 ePKP  49 25.50 -11.7X
       1.0s   312.00nm
LPA   137.49 173 iPKPc-49 36.00  -2.7X
       0.8s   597.00nm
     Z  20s    92.90um          7.5Msz
MNT   137.67  23 ePKP  49 29.00  -9.7X
       1.6s   420.00nm
CEN   137.97 158 ePKP  49 27.00 -12.8X
RSNY  138.10  24 ePKP  49 29.30 -10.2X
       0.7s    93.30nm
BNH   139.32  21 ePKP  49 36.00  -5.7X
STJ   140.01   1 ePKP  49 35.00  -7.8X
       0.9s   287.00nm
TEN   140.43 306 iPKP  49 45.20   1.0
                 iPP   53 01.20
                 iSKS  56 19.50
JSC   141.96  41 ePKP  49 41.00  -5.8X
LPS   142.78  76 ePKP  49 44.00  -4.8X
SSS   142.81  77 ePKP  49 51.40   2.6X
CAC   145.84 151 iPKP  49 55.50   1.5
SOR   146.39  60 iPKP+ 49 55.00   0.4
                 i     50 41.00
YJA   147.68 156 ePKPc 49 58.40   1.2
SJS   148.09  83 ePKP  50 00.90   3.2X
LM2   148.31 128 ePKP  50 00.00   2.2
NNA   148.54 128 iPKP  49 58.50   0.2
       0.4s    21.20nm
                 e     50 02.50
                 eS    52 06.00
BMA   149.11 194 ePKP  50 00.90   1.9
                 e     50 04.00
                 i     50 06.30
LPB   151.27 146 PKPc+ 50 04.20   1.4
     Z  19s     6.88um          6.5Msz
                 i     50 10.30
                 SS    06 13.00
ZOBO  151.47 146 iPKP  50 04.10   0.8
UPA   152.57  85 iPKPd 50 04.00  -0.2
       1.0s    60.00nm
     Z  20s     4.61um          6.3Msz
                 i     52 11.00
                 i     55 31.00
                 i     01 18.00
PSO   153.87 103 ePKP  50 07.50   0.9
BAO   156.75 189 PKP   50 10.00   0.0
BOG   157.75  96 iPKP  50 12.00   0.4
BOCO  157.76  96 iPKP  50 12.00   0.3
BMG   158.95  90 ePKP  50 25.00  12.4X
ITR   159.06 220 ePKP  50 12.80   0.2
SOB1  160.17 214 ePKP  50 14.50   0.7
LGN   160.64  81 ePKP  50 24.30  10.1X
       0.4s   281.00nm
UAV   160.87  85 ePKP  50 24.20   9.5X
UTV   161.36  84 ePKP  50 15.80   0.6
TOV   162.12  81 iPKPd 50 16.50   0.7
       1.0s    97.50nm
SJG   162.51  51 iPKPc 50 15.60  -0.4
       0.9s   303.00nm
     Z  19s    34.70um
CAR   164.81  77 ePKP  50 20.00   1.6
BPA   166.35  45 ePKP  50 18.00  -1.5
SEG   167.03  46 ePKP  50 19.50  -0.4
PAG   167.15  48 ePKP  50 20.00  -0.1
MGG   167.49  47 ePKP  50 20.00  -0.3
MDN   167.81  49 ePKP  50 20.00  -0.5
FDF   168.36  51 ePKPc 50 21.50   0.6
GUV   168.86  87 ePKP  50 21.20  -0.1
ATB   169.33 178 PKP   50 22.00   0.5
TRN   170.06  71 iPKPc 50 22.50   0.6
       1.2s   237.00nm
     S.D. = 1.2  on 414 of 588 obs.

   NOV  30, 1983  17h 46m 00.76± 0.08s
    6.821 S ± 2.0km   72.107 E ± 1.6km
   DEPTH =  10.0km  (geophysicist)
   6.7mb ( 91 obs.)  7.5Msz ( 22 obs.)
 CHAGOS ARCHIPELAGO REGION        (426)
      Some damage (VI) to buildings
      and piers on Diego Garcia. Five
      foot rise in wave height in the
      lagoon and significant wave
      damage near the southeastern tip
      of the island. Forty cm. tsunami
      at Victoria, Seychelles. Large
      zone of discolored sea water
      observed 35 to 40 nautical miles
      northwest of Diego Garcia.

KOD    17.76  18 iPc   50 12.00   1.8
GBA    20.97  15 Pd    50 47.10   0.5
       1.0s   252.00nm          5.5mb X
HYB    24.91  15 iPd   51 25.50   0.0
                eS    56 09.50
POO    25.25   4 iPd   51 29.70   1.0
AVY    26.59 241 iPc   51 42.80   1.4
TSI    28.33  70 ePd   52 01.00   4.0X
PSI    28.39  71 ePc   51 58.50   0.9
       0.8s    72.50nm          5.5mb X
PPI    28.92  79 ePc   52 03.50   1.2
                e(S)  55 21.00
IPM    31.01  69 ePd   52 21.90   0.9
       0.7s    69.40nm          5.7mb
                e     52 26.10
                e     52 40.00
                e     53 11.10
                e     53 39.90
                e     54 35.00
                e     55 52.00
KLM    31.09  72 eP    52 23.20   1.5
KGM    32.37  75 eP    52 33.50   0.6
                e     54 46.10
NPA    33.25 253 eP    52 42.00   1.4
                e     54 00.00
                e     55 01.00
                e     55 33.00
                eS    59 15.00
                e     04 06.00
NNT    33.55  55 eP    53 00.00  16.8X
KHT    33.92  51 eP    52 53.50   7.1X
NAI    35.63 277 iPd   53 03.00   1.7
       1.0s   120.00nm          5.7mb
                iS    53 04.00
NST    35.64  51 ePn   53 01.00  -0.1
BDT    35.75  48 eP    53 02.00   0.0
       1.5s  2170.00nm          6.8mb
PCT    36.07  54 eP    53 04.00  -0.7
DMN    36.46  20 iPd   53 09.30   1.1
PKI    36.53  20 iPd   53 09.50   0.6
KKN    36.69  20 iPd   53 10.90   0.8
CHG    36.73  46 iPd   53 11.50   1.2
       1.1s   127.00nm          5.6mb X
                eS    59 14.00
AAE    36.77 295 iP    53 12.50   1.4
MTD    40.80 252 iPd   53 45.00   0.6
SHI    40.85 334 eP    53 45.00   0.3
KRI    42.68 253 iPd   53 59.00  -0.9
KMI    43.55  42 iPd   54 07.50   0.5
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	E 15s 223.00um					
		pP	54	22.00	56kmX	
		PP	55	51.00		
		PcP	55	54.00		
		S	00	41.00		
		iS	00	45.00		
KHO	44.08	359	P	54	11.60	0.7
BUL	44.17	248	iPd	54	11.70	-0.3
	1.0s 665.00nm				6.4mb	
MHI	44.50	345	iPd-	54	14.60	0.3
	2.4s 4280.00nm				6.9mb	
		e	56	09.00		
		eSn	01	02.00		
KUL	44.54	357	P	54	14.80	0.3
NAU	44.60	115	iPd	54	25.10	9.9X
BKB	44.93	85	ePc	54	28.70	10.7X
	1.2s 1270.00nm					
DSH	45.25	356	P	54	21.00	0.7
SLR	45.80	241	iPd	54	24.50	-0.5
	1.7s 4850.00nm				7.2mb	
	Z 23s 105.00um				6.7MszX	
KKM	45.83	75	ePd	54	26.80	1.5
	1.0s 136.00nm				5.9mb	
		e	54	46.00		
		e	55	00.00		
BPI	46.15	240	iPd	54	27.00	-0.7
KSH	46.18	4	iPd	54	28.00	0.4
ASH	46.35	345	P	54	29.00	0.1
VAN	46.41	345	P	54	29.00	-0.4
SAM	46.50	355	P	54	29.50	-0.6
TEH	46.61	337	eP	54	31.00	-0.1
KSR	47.04	241	iPd	54	32.70	-2.1
GYA	47.09	44	Pd	54	33.00	-2.1
MKS	47.11	91	iPd	54	38.00	2.7
		iS	55	10.60		
SEK	47.13	237	iPd	54	35.50	0.0
KER	47.29	332	eP	54	37.50	1.0
ANR	47.34	0	P	54	36.00	-0.7
BFS	47.42	240	iPd	54	35.20	-2.6
BHD	47.78	328	ePc	54	42.50	2.3
		iPP	56	51.00		
		ePcS	58	29.50		
		i	00	12.00		
		iS	01	49.00		
		e	03	01.00		
		e	04	17.00		
		e	09	35.00		
TAS	47.98	357	iPd	54	42.00	0.3
	2.3s ********nm				7.8mb X	
	N 13s 540.00um					
	E 14s 552.00um					
		iS	01	36.00		
		eScS	04	34.00		
BAL	47.98	125	eP	54	41.00	-0.9
MUN	48.07	127	eP	54	42.00	-0.6
KAT	48.08	343	iPd	54	41.50	-1.0
		eS	01	44.00		
		iSPP	01	55.00		
NRN	48.15	4	P	54	43.00	-0.4
CD2	48.22	37	iPd	54	43.00	-0.8
		iS	01	47.00		
BLF	48.58	237	iPd	54	46.30	-0.5
SWZ	48.75	240	iPd	54	47.00	-1.1
KLB	49.17	126	eP	54	49.50	-1.6
NWAO	49.23	128	eP	54	50.00	-1.5
PRZ	49.40	6	P	54	52.50	-0.3
FRU	49.47	2	iPd	54	52.80	-0.4
	2.5s 9460.00nm				7.3mb	
	Z 14s 310.00um				7.5MszX	
	N 12s 480.00um					
	E 14s 280.00um					
		iS	02	04.00		
		iSPP	02	15.00		
RKG	49.49	130	eP	54	56.00	2.5
GRM	49.69	232	iPd	54	53.50	-1.6
	1.0s 1040.00nm				6.8mb	
MCO	49.76	54	iP	54	58.90	3.2X
AAA	50.05	5	P	54	57.20	-0.5
TLG	50.08	5	P	54	57.00	-0.9
GZH	50.09	52	iPd	54	58.00	-0.2
		S	02	00.00		
HKC	50.34	54	iP	55	01.00	0.9
		iS	01	32.00		
TAB	50.70	334	iP-	55	03.60	0.8
MSL	50.84	330	iPc	55	04.00	0.3
KUPT	51.00	98	eP	55	07.40	2.1
BAK	51.23	338	eP	55	12.00	5.4X

		iS	02	28.00		
PRNI	51.30	318	iP	55	09.00	1.7
GRS	51.89	335	iPd	55	12.00	0.1
	1.8s 500.00nm				6.1mb	
		ePcP	56	21.80		
		ePS	02	44.00		
		eSPP	02	50.00		
KLG	51.92	124	eP	55	11.00	-1.1
	1.0s 720.00nm				6.6mb	
SHE	51.93	337	P	55	13.00	1.1
LZH	52.06	33	iPd-	55	12.00	-1.2
		pP	55	28.50	64kmX	
		PP	57	13.00		
		S	02	22.00		
		sS	02	39.00		
JER	52.09	320	iP	55	14.80	1.4
WMO	52.34	14	iPd	55	14.60	-0.5
		PS	02	51.00		
PGP	52.53	67	ePd	55	18.00	1.2
	1.5s 1040.00nm				6.5mb	
GTA	52.66	27	iPd	55	16.80	-0.9
		PS	02	51.50		
HRI	52.74	321	iP	55	19.50	1.2
KRV	52.85	335	iPd	55	18.00	-0.9
		iSPP	03	01.00		
MAN	53.04	66	P	55	23.00	2.4
BAG	53.22	64	iPd-	55	21.00	-1.2
ERE	53.25	334	P	55	22.00	0.1
MNI	53.26	83	eP	55	24.50	2.2
	1.7s 1030.00nm				6.5mb	
HLW	53.49	315	iPd	55	24.00	0.3
XAN	53.53	38	iPd	55	21.50	-2.5
		PcP	56	27.00		
		PP	57	22.00		
SUR	53.97	235	iPd	55	27.60	0.1
	1.0s 860.00nm				6.7mb	
PIP	53.98	62	ePc	55	28.00	0.5
LEN	54.01	334	iPd	55	28.00	0.5
		iPcP	56	38.00		
		iS	03	08.00		
CCP	54.32	72	iPc	55	30.50	0.5
		iS	55	57.70		
MTA	54.37	335	iPd	55	29.40	-0.5
		iS	03	10.40		
		iSPP	03	22.40		
CGP	54.58	75	eP	55	30.00	-1.9
		eS	56	06.00		
BNG	54.62	280	iPd	55	31.00	-1.3
	1.4s 295.00nm				6.1mb	
CVP	54.80	63	ePc	55	33.50	0.0
		eS	56	03.00		
WHN	54.93	45	Pc	55	34.00	-0.3
BKR	54.94	334	iP	55	33.60	-0.8
	2.2s 930.00nm				6.4mb	
	E 19s 40.90um					
		iS	03	19.60		
LGP	54.98	69	ePd	55	38.50	3.6X
	1.8s 46.70nm				5.2mb X	
DAV	55.10	77	iP-	55	33.00	-2.8
QZH	55.16	53	Pd	55	36.00	-0.1
		iS	03	22.00		
		SS	06	58.00		
WBN	55.22	117	iPd	55	34.30	-2.3
GRO	55.39	337	P	55	38.00	0.6
CER	55.47	234	iPd	55	37.50	-0.8
PLP	55.56	72	ePd	55	38.00	-1.1
		iS	56	03.00		
TUH	55.56	234	iPd	55	38.80	-0.1
CNP	55.65	70	ePc	55	44.00	4.3X
AAI	55.91	90	ePc	55	43.60	1.9
	1.1s 284.00nm				6.2mb	
PYA	57.01	335	P	55	49.00	-0.1
SEM	57.43	6	iPd	55	50.50	-1.4
	1.9s 5130.00nm				7.2mb	
		eSP	03	56.10		
ANP	57.62	55	iP-	55	52.00	-1.8
		eS	58	08.00		
TIY	58.09	37	iPd	55	55.50	-1.4
		PcP	56	51.00		
		iS	03	56.00		
SOC	58.11	333	P	55	57.00	0.3
MTN	58.36	101	eP	55	57.00	-2.0
ELL	58.63	321	iPd	55	59.50	-1.2
BCK	58.65	322	iP	55	59.10	-1.7
BTO	58.66	33	iPd	55	59.50	-1.3
		S	04	01.00		
NJ2	58.97	46	iPd	56	01.50	-1.5

ISI	59.43	57	eP	56	08.00	1.7
HHC	59.68	34	Pd	56	08.00	0.1
YER	59.89	320	iPd	56	08.50	-0.9
ALT	59.96	323	iPd	56	09.50	-0.4
TIA	60.11	41	Pc	56	10.40	-0.4
		PP	58	26.00		
		S	04	23.00		
SSE	60.18	48	Pd-	56	10.20	-1.1
	1.8s 202.00nm				6.0mb	
	Z 15s 21.40um				6.4MszX	
	N 15s 107.00um					
	E 16s 32.00um					
		pP	56	26.00	59kmX	
		PP	58	28.00		
		PPP	59	59.00		
		PcS	00	58.00		
		S	04	18.00		
		SS	08	23.00		
ANN	60.22	332	iPd	56	09.00	-2.3
		iS	04	23.00		
NPS	60.55	317	iPd	56	14.00	0.2
GPA	60.64	324	iPd	56	13.20	-1.2
KDE	60.66	326	iP	56	12.00	-2.5
MAW	61.02	184	ePd	56	17.00	0.6
	Z 16s 410.00um				7.7MszX	
ELT	61.03	10	iPd	56	15.40	-1.3
	2.0s 2780.00nm				7.0mb	
		iS	04	37.10		
UER	61.14	15	iPd	56	16.00	-1.5
	2.5s 4000.00nm				7.1mb	
		iS	04	43.50		
DST	61.20	323	iPd	56	16.60	-1.6
IZM	61.30	321	iPd	56	18.90	0.0
ASPA	61.48	113	eP	56	18.00	-2.4
WRA	61.63	189	Pd	56	20.60	-0.8
	0.6s 155.00nm				6.3mb	
WB2	61.64	109	iPd	56	20.50	-1.0
SIM	61.79	330	iPd	56	22.00	-0.1
	Z 18s 110.00um				7.1Msz	
	N 20s 288.00um					
	E 18s 143.00um					
		sPP	58	38.00		
		iS	04	42.00		
BJI	61.82	37	Pd-	56	22.50	0.1
		pP	56	29.00	21kmX	
		PP	58	44.00		
		SS	08	57.00		
ISK	61.87	324	eP	56	20.20	-2.4
EDC	62.12	323	iPd	56	23.40	-1.0
NVS	62.20	7	P	56	21.50	-3.1X
PRK	62.43	321	eP	56	26.50	0.1
EZN	62.74	322	iPc	56	28.10	-0.3
ZAK	63.05	22	iPd	56	29.00	-1.2
	3.0s 5430.00nm				7.2mb	
		eS	04	56.00		
NAH	63.10	56	eP	56	34.00	2.9
MDY	63.32	20	eP	56	31.10	-0.9
		eSP	05	14.80		
ATH	63.33	319	iPd	56	31.80	-0.6
		eS	05	24.00		
ARU	63.97	352	ePd	56	35.00	-1.3
	Z 18s 261.00um				7.5Msz	
	N 18s 197.00um					
	E 16s 260.00um					
		eS	04	07.00		
		eSP	05	27.00		
		ePPS	05	43.00		
PSN	64.04	326	iPd	56	37.00	0.1
SVE	64.10	353	iPd	56	35.50	-1.7
	3.0s ********nm				7.6mb	
		iPcP	57	10.00		
		eS	05	12.00		
JMB	64.19	324	iPc	56	38.00	0.0
KDZ	64.42	323	iPd	56	39.00	-0.5
DIM	64.52	323	eP	56	39.00	-1.1
DL2	64.58	41	iPd	56	39.00	-1.6
		S	05	21.00		
TLB	64.71	327	iPd	56	41.00	-0.3
IRK	64.96	21	P	56	42.00	-0.8
CFR	65.03	327	iPd	56	43.00	-0.3
MMB	65.37	322	eP	56	45.00	-0.7
PVL	65.43	324	iPd	56	46.00	0.1
VLS	65.52	317	eP	56	45.80	-0.9
CGN	65.57	325	eP	56	47.00	0.2
BUC1	65.67	325	ePd	56	46.00	-1.4
KIS	65.86	329	P	56	47.70	-0.9
ISR	65.87	326	ePd	56	49.50	0.6

30d 17h

KZN	65.88	320	iPd	56	48.50	-0.5
MVI	65.91	58	eP	56	55.00	5.6X
PPE	65.98	328	ePc	56	49.00	-0.5
VRI	66.24	327	iPc	56	51.00	-0.1
VTS	66.27	323	iPd	56	50.00	-1.4
CLI	66.38	328	iPc	56	52.00	0.0
MLR	66.43	326	iPc	56	53.00	0.5
ISO	66.54	110	eP	56	50.00	-3.6X
IAS	66.65	329	eP	56	54.00	0.3
FKJ	66.68	50	eP	57	01.00	6.9X
			eS	05	57.00	
CMP	66.79	326	iPd	56	50.00	-4.7X
DRA	66.87	325	eP	56	55.00	-0.2
OHR	66.93	320	iP	56	53.70	-2.0
			iPS	06	14.20	
ADE	66.97	125	eP	56	54.50	-1.7
SKO	67.08	321	iPd	56	54.00	-2.1
	1.5s	400.00nm			6.4mb	
			i	56	59.00	
			i	57	02.00	
			iPP	59	37.00	
			iPPP	01	01.00	
			iS	05	44.00	
			iPS	06	17.00	
COZ	67.21	325	ePc	56	56.00	-1.6
NGS	67.48	51	eP	56	56.00	-3.3X
			eS	06	05.00	
SEO	67.51	45	iPd-	57	01.90	2.6
	1.6s	3300.00nm			7.3mb	
	Z 17s	476.00um			7.8MszX	
	N 17s	246.00um				
	E 17s	178.00um				
			eS	05	56.80	
TAJ	67.56	53	eP	57	05.00	5.2X
			eS	06	35.00	
IZU	67.67	49	eP	57	05.00	4.6X
			eS	06	09.00	
KUM	68.16	51	eP	57	08.00	4.5X
			eS	06	12.00	
MYZ	68.36	52	eP	57	06.00	1.2
			eS	06	12.00	
DEV	68.36	325	ePc	57	05.00	0.5
LCI	68.38	318	iPc	57	04.50	-0.2
			i	10	30.50	
SSR	68.44	324	iP	57	05.00	0.0
OBN	68.46	339	iPd	57	03.60	-1.3
	1.2s	2210.00nm			7.2mb	
	Z 20s	302.00um			7.5Msz	
	N 20s	210.00um				
	E 18s	260.00um				
			iPP	59	38.00	
			iS	06	04.00	
			iSS	10	28.00	
JAY	68.46	90	iPd	57	08.00	2.1
CJR	68.46	326	eP	57	04.30	-0.9
			e	25	22.30	
MOS	68.55	340	P	57	04.00	-1.5
TTG	68.61	321	iPd	57	05.60	-0.5
			PcP	57	25.00	
			PPP	01	21.50	
			eS	06	11.50	
SHN	68.80	50	ePd	57	08.00	0.5
			eS	06	17.00	
MSI	68.99	315	eP	57	17.00	8.4X
STK	69.02	121	eP	57	07.00	-1.9
OIT	69.03	51	eP	57	03.00	-5.9X
			eS	06	05.00	
BRT	69.14	318	iPd	57	10.00	0.6
ORI	69.24	317	iPd	57	11.00	0.9
			ipP	57	31.50	78kmX
			iPP	00	08.50	
CN2	69.64	38	iPd	57	09.40	-3.0X
			PP	59	49.00	
CEI	69.67	327	eP	57	14.00	1.5
ASZ	69.91	52	eP	57	14.00	-0.3
			eS	06	29.00	
GIB	69.97	314	eP	57	15.00	0.3
HMD	70.04	49	eP	57	16.00	1.0
			e	06	32.00	
LVV	70.13	329	P	57	15.00	-0.3
SGO	70.25	317	iPd	57	16.00	-0.2
			iPP	59	59.50	
UZH	70.31	327	iPd	57	16.00	-0.4
	Z 17s	210.00um			7.5MszX	
			iPcP	57	31.00	
			iPP	59	54.00	
			iS	06	26.00	

BFD	70.33	127	eP	57	15.00	-1.9
SHK	70.35	50	eP	57	17.50	0.5
ERC	71.01	314	eP	57	21.50	0.6
MTS	71.01	49	ePd	57	27.00	6.0X
			eS	06	46.00	
JOS	71.19	327	iPd	57	20.40	-1.4
	1.4s	370.00nm			6.3mb	
DUI	71.33	318	eP	57	23.50	0.7
			ePP	00	16.00	
OKA	71.35	50	eP	57	26.00	3.0X
			e	07	28.00	
SPC	71.74	327	eP	57	24.40	-0.9
	Z 18s	351.00um			7.7Msz	
			iPP	00	21.70	
			e	25	31.00	
HIM	72.01	50	eP	57	29.00	2.0
			eS	06	51.00	
SRO	72.05	325	eP	57	25.50	-1.4
WKY	72.14	51	eP	57	25.00	-2.7
			eS	07	05.00	
AQU	72.35	318	iPd	57	29.00	0.1
KRA	72.40	328	ePd	57	27.60	-1.4
	1.8s	1630.00nm			6.8mb	
	Z 18s	160.00um			7.3Msz	
			e	57	30.10	
			i	57	34.10	
			i	57	42.30	
			i	57	46.30	
			i	59	59.00	
			i	02	13.00	
			iS	06	50.00	
RDP	72.54	318	eP	57	29.00	-1.1
			ePP	00	19.50	
RMP	72.57	318	iPd	57	29.50	-0.7
			iPP	00	01.90	
			iS	06	54.00	
			iPS	07	32.00	
CMS	72.60	121	eP	57	29.00	-1.6
MDJ	72.62	39	Pd	57	30.00	-0.4
OSK	72.66	51	eP	57	33.00	2.1
			eS	06	55.10	
TOO	72.71	127	iPd-	57	30.20	-1.0
PDI	72.76	318	iPd	57	31.50	0.3
CTA	72.83	109	iPd	57	31.00	-1.1
	1.0s	123.00nm			5.9mb	
			i	57	35.00	
			i	57	39.50	
			e	58	57.00	
			i	59	29.00	
			i	01	21.00	
			e	02	07.00	
CTAO	72.83	109	iP	57	31.00	-1.1
MNS	72.84	318	iPd	57	32.00	0.3
KYO	72.86	50	eP	57	32.00	0.0
			eS	07	08.00	
BOD	72.88	22	iPd	57	29.30	-2.4
	1.0s	440.00nm			6.5mb	
TUP	72.90	27	iPd	57	30.10	-1.7
	2.0s	1010.00nm			6.6mb	
ZST	72.94	325	eP	57	31.80	-0.4
			e	00	23.60	
WAR	73.11	330	eP-	57	32.00	-1.1
			e	57	45.00	
			e	01	15.00	
			e	07	32.00	
CEY	73.29	322	iPd	57	34.10	-0.2
			i	57	36.00	
HIK	73.35	50	eP	57	35.00	0.2
			eS	07	13.00	
LJU	73.37	322	iPd	57	34.80	0.0
	0.6s	3.90nm			4.7mb X	
			i	57	37.50	
			ePP	00	19.00	
			eS	06	55.00	
VKA	73.42	325	ePd	57	34.00	-1.0
			i	57	38.80	
			ipP	57	43.50	31kmX
			isP	57	49.00	
TRI	73.68	322	iPd	57	35.60	-0.9
			iPP	00	26.90	
			ePPP	02	07.00	
			eS	06	56.00	
			eSP	07	33.00	
			eSS	12	00.00	
			eSSS	15	42.00	
GIF	73.79	50	eP	57	39.00	1.6
NVL	74.07	197	iP	57	40.00	1.6

			iPcP	57	56.00	
RBL	74.15	322	eP	57	39.50	0.1
			ePP	00	30.50	
PUL	74.16	339	iPd	57	38.00	-1.0
	1.8s	3500.00nm			7.1mb	
	Z 23s	260.00um			7.5MszX	
	N 23s	230.00um				
	E 23s	160.00um				
			iPcP	57	54.00	
			ePP	00	29.00	
			iPPP	02	17.00	
			iS	07	10.00	
PMG	74.22	98	iPd	57	39.20	-1.1
HMM	74.28	51	eP	57	42.00	1.7
			e	07	24.00	
LAT	74.30	95	eP	57	40.50	-0.3
FIR	74.39	319	eP	57	41.00	0.3
			iPP	00	40.00	
			iS	07	08.00	
KBA	74.58	323	iPd	57	41.20	-0.8
	2.7s	6230.00nm			7.2mb	
			i	57	45.60	
			i	57	49.50	
KMR	74.59	324	iP-	57	41.30	-0.5
IID	74.64	50	eP	57	49.00	6.6X
			S	07	26.50	
YOU	74.86	124	eP	57	42.90	-0.8
GUMO	75.01	74	eP-	57	43.00	-1.8
	1.5s	1410.00nm			6.8mb	
GUA	75.04	74	eP-	57	43.00	-2.0
	0.9s	840.00nm			6.8mb	
	Z 18s	84.50um			7.1Msz	
			PcP	58	00.30	
			e(S)	07	25.00	
DRV	75.11	158	eP	57	43.50	-1.0
CTI	75.15	321	eP	57	44.50	-0.7
BHG	75.17	323	iPd	57	44.60	-0.6
LMG	75.24	97	eP	57	45.00	-1.4
MAT	75.28	50	iPc	57	46.20	0.1
	1.5s	225.00nm			6.0mb	
			eS	07	20.00	
PRU	75.30	326	Pd	57	45.10	-0.8
	2.5s	4440.00nm			7.1mb	
			e	58	25.50	
			PP	00	35.00	
			S	07	24.00	
WAM	75.34	126	eP	57	47.30	0.9
CAN	75.40	125	eP	57	46.10	-0.8
KHC	75.43	325	iPd	57	45.50	-1.2
	1.0s	496.00nm			6.5mb	
			e	58	27.00	
CVF	75.47	317	iPc	57	46.40	-0.6
	1.1s	545.00nm			6.5mb	
CBI	75.62	60	eP	57	50.00	1.8
SAL	75.66	320	iPd	57	48.20	0.3
OYM	75.70	51	eP	57	50.20	1.7
SRY	75.78	51	eP	57	48.00	-0.9
WET	75.84	324	iPd	57	47.70	-1.3
			eS	07	29.00	
DDR	75.85	50	eP	57	49.40	0.0
OGA	75.90	322	iPd	57	49.10	-0.5
BRG	76.08	326	iPd-	57	50.00	-0.2
	2.0s	2650.00nm			7.0mb	
	Z 18s	170.00um			7.4Msz	
			i	57	55.00	
			eS	07	32.00	
			eP'P'	25	18.50	
GAP	76.15	322	iPd	57	50.60	-0.2
VG1	76.29	319	eP	57	52.00	0.5
KYS	76.32	51	eP	57	53.30	1.3
FUR	76.33	323	iPd	57	51.10	-0.7
	Z 18s	161.00um			7.4Msz	
			eS	07	39.00	
OSS	76.36	321	ePd	57	52.50	0.3
TSK	76.62	50	eP	57	53.50	-0.1
VDL	76.70	321	ePd	57	54.00	-0.1
NUR	76.72	338	iPd	57	53.10	-0.5
	1.2s	815.00nm			6.7mb	
	Z 16s	234.00um			7.6MszX	
			i	58	02.20	
			eS	07	40.00	
CLL	76.81	326	iPd	57	54.70	0.4
	2.4s	5400.00nm			7.2mb	
			eS	07	41.00	
			eSS	12	40.00	
			P'P'	25	22.00	
NRI	76.85	6	iPd	57	52.90	-1.3

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        1.5s  1400.00nm          6.8mb
                iS     07 47.00
TMA   76.91 320 ePd    57 54.50  -0.8
HOF   76.96 325 iPd    57 55.00  -0.3
GRF   77.05 324 iPd    57 55.50  -0.3
        1.5s   381.00nm          6.3mb
    Z  22s    170.00um          7.3Msz
                e      57 59.00
                e      58 11.00
                m      58 28.00
                eS     08 04.00
                eSS    12 53.00
SAX   77.10 322 ePd    57 56.40   0.0
RIV   77.15 123 iPd    58 00.90   4.3X
BRN   77.24 327 iPd    57 57.20   0.5
MOX   77.27 325 iPd-   57 57.00   0.1
        2.6s  8000.00nm          7.3mb
    Z  20s  1780.00um          8.4Msz
    N  21s   126.00um
    E  21s    95.80um
                i      58 12.00
                iPP    00 52.00
                iS     07 45.00
                iSS    12 36.00
                eP'P'  25 22.00
ORO   77.29 320 iPd    57 56.50  -0.8
FRF   77.36 317 iPc    57 57.80   0.2
        0.9s   658.00nm          6.7mb
LMR   77.37 317 eP     57 57.90   0.3
        1.2s   468.00nm          6.5mb
YAM   77.46  49 eP     58 01.00   2.8
MMK   77.47 320 ePd    57 58.50   0.1
LRG   77.51 317 iPc    57 59.00   0.6
        1.1s   567.00nm          6.6mb
ABA   77.62 310 iP     57 58.00  -1.2
SUF   77.68 340 iP     57 57.60  -1.3
        0.9s   296.00nm          6.4mb
COO   77.78 120 eP     57 58.00  -2.3
KIC   77.78 278 iP     58 00.10  -0.4
ZUL   77.79 322 ePd    58 00.00   0.1
SLE   77.84 322 ePd    58 00.00  -0.2
KJF   78.20 342 iPd-   58 01.20  -0.6
        1.2s  1010.00nm          6.8mb
                i      58 09.80
                eS     08 08.00
ISN   78.23  49 eP     58 05.00   2.6
                eS     08 04.00
BUH   78.38 323 ePd    58 02.60  -0.5
KVG   78.47  91 eP     58 05.00   0.7
BAF   78.79 321 iPd    58 04.40  -1.1
ECH   78.84 322 iPd    58 04.80  -0.9
CDF   78.85 322 iPc    58 05.50  -0.3
        1.3s  1000.00nm          6.7mb
GWF   78.87 323 iPd    58 05.40  -0.4
TNS   78.89 324 iPd    58 05.70  -0.2
                ePcP   58 33.30
                eS     08 15.00
                eSS    13 20.00
SUT   78.91  44 eP     58 13.00   7.0X
                e      08 10.00
BSF   78.92 321 eP     58 05.60  -0.6
        1.1s   643.00nm          6.6mb
HAK   78.94  45 eP     58 07.00   0.8
                e      08 08.00
UPP   79.09 335 iP     58 06.50  -0.2
                iS     08 03.00
MIY   79.10  48 eP     58 10.00   2.8
                S      08 13.40
APA   79.14 346 iPd    58 05.80  -1.0
    Z  19s   420.00um          7.8Msz
                iPcP   58 10.80
                iPPP   03 02.00
                iS     08 05.00
RLA   79.15 308 iP     58 10.00   2.4
COP   79.24 338 iPd    58 08.20   0.7
        1.0s   240.00nm          6.2mb
                i      01 14.00
                iS     08 00.00
HAU   79.26 321 eP     58 07.50  -0.4
        1.2s   558.00nm          6.5mb
SSB   79.40 313 iPd    58 09.40   0.6
HAM   79.48 327 iPd    58 09.90   1.0
RAB   79.66  93 iPd-   58 09.00  -1.8
SAP   79.75  44 eP     58 14.00   3.4X
                eS     08 17.00
WLF   80.02 323 P-     58 20.00   8.1X
                S      08 18.00
SMF   80.34 320 eP     58 13.50  -0.2
        1.1s   469.00nm          6.4mb
LBF   80.37 320 iPc    58 13.90  -0.1
        1.4s  1070.00nm          6.6mb
LOR   80.55 320 iPc    58 15.10   0.3
        2.0s  2300.00nm          6.8mb
WTS   80.57 325 iPd    58 16.10   1.3
        2.2s  2150.00nm          6.8mb
                ePP    01 18.00
                eP'P'  16 09.00
ENN   80.59 324 iPd    58 15.70   0.8
        2.3s  1050.00nm          6.4mb
                i      58 20.10
                ePP    01 23.50
SSF   80.70 320 iPc    58 15.80   0.2
        0.8s   735.00nm          6.7mb
AVF   80.70 320 eP     58 15.50  -0.1
        1.5s   752.00nm          6.5mb
EBR   80.74 313 eP     58 15.00  -0.9
                e      08 39.00
SOD   80.75 344 iP     58 15.60   0.1
                i      58 24.80
ALI   80.76 311 iP+    58 16.50   0.4
                eS     09 04.50
HFS   80.90 334 eP     58 16.20  -0.2
        0.8s   136.00nm          6.0mb
    Z  25s   448.00um          7.7MszX
CAF   80.92 317 eP     58 17.90   1.0
        1.4s   735.00nm          6.5mb
WIT   80.98 326 ePd    58 19.00   2.1
MZF   81.01 319 eP     58 17.70   0.4
        1.3s   607.00nm          6.5mb
GRC   81.06 320 iPc    58 18.40   0.9
DOU   81.12 323 P      58 18.10   0.4
        0.8s   234.00nm          6.3mb
                e      01 36.00
                S      08 30.00
MUD   81.22 330 iPd    58 19.90   1.8
        0.9s   160.00nm          6.1mb
                i      01 27.00
TCF   81.28 319 iPc    58 19.50   0.8
        1.7s   650.00nm          6.4mb
RJF   81.41 318 iPc    58 20.50   1.1
        1.4s  1470.00nm          6.8mb
LPO   81.44 317 iPc    58 20.70   1.2
        0.8s   610.00nm          6.7mb
EPF   81.51 315 eP     58 20.80   0.8
UCC   81.52 324 Pd-    58 20.50   0.7
                e      58 23.70
                S      08 28.00
DBN   81.54 325 iP-    58 20.00   0.2
    Z  20s    90.00um          7.1Msz
                iS     08 34.00
                iScS   08 46.00
                eSS    13 39.00
YAK   81.55  24 iPd    58 18.90  -0.8
        2.0s  2190.00nm          6.9mb
                iS     08 28.70
                iSSS   17 15.90
LSF   81.71 319 iPc    58 21.70   0.8
        0.8s   485.00nm          6.6mb
LFF   81.82 317 iPc    58 22.70   1.2
        0.9s   771.00nm          6.8mb
YSS   81.98  41 iPd    58 22.00  -0.2
        1.4s   950.00nm          6.7mb
JAU   82.01 315 eP     58 24.70   1.9
ABJ   82.09  44 eP     58 23.00   0.1
                eS     08 43.00
ESCF  82.17 315 eP     58 25.10   1.7
ATE   82.26 315 eP     58 25.70   1.8
ISSF  82.31 315 eP     58 25.90   1.7
KEV   82.33 346 iPd-   58 24.00   0.3
        1.1s   540.00nm          6.6mb
                i      58 33.20
                eS     08 40.00
NB2   82.41 335 P      58 23.80  -0.5
        1.6s  1950.00nm          7.0mb
KON   82.46 333 iPd    58 24.40  -0.1
BOH   82.48 315 eP     58 27.40   2.3
MCO   82.67 144 eP     58 30.00   4.3X
        1.3s     1.20nm          3.9mb X
PAA   82.73  95 eP     58 25.00  -2.0
CRT   82.83 309 iPd    58 28.70   1.7
KIR   82.85 343 iP     58 26.60   0.1
MFF   82.92 319 iPc    58 27.90   0.7
        1.0s   531.00nm          6.7mb
SPA   83.22 180 iPd    58 28.20  -0.4
        1.0s   508.00nm          6.7mb
    Z  22s    61.60um          6.9Msz
MAL   83.35 308 iPd    58 30.00   0.4
                i      59 09.00
LGR   83.36 314 iPd    58 31.40   1.8
        2.2s     5.90nm          4.4mb X
                i      58 46.00
                iPP    01 46.00
                iS     08 52.00
LDF   83.51 320 eP     58 30.70   0.5
        1.5s  1220.00nm          6.9mb
FLN   83.79 321 eP     58 32.20   0.6
        1.5s  1080.00nm          6.8mb
TOL   83.83 311 iP-    58 33.50   1.5
                i      58 43.00
                i      58 50.00
                iPP    02 04.00
                iPPP   04 02.00
                iS     08 58.00
                i      09 19.00
                iPS    09 51.00
                i      10 55.00
                iSS    14 09.00
                iSSS   18 13.00
                i      24 58.00
GRR   83.92 320 eP     58 32.60   0.4
        1.5s  1480.00nm          7.0mb
LPF   83.93 320 iPc    58 32.80   0.5
        1.2s  1350.00nm          7.0mb
SBA   84.36 168 eP     58 35.00   1.0
TRO   84.38 344 iP     58 34.00  -0.2
SFS   84.70 308 iPd    58 34.00  -2.4
                i      58 46.00
                i      59 00.00
                iPP    02 04.00
                iPPP   05 01.00
                iS     09 10.00
                iSS    15 10.00
                iSSS   19 00.00
BER   84.72 333 iP     58 37.30   1.3
        2.4s  7530.00nm          7.5mb
KUR   84.89  43 iPd    58 36.00  -1.1
                iS     09 08.00
TIK   86.52  15 P      58 44.00  -0.8
SVO   86.68  99 eP     58 50.00   3.3X
HNR   86.78  99 ePc-   58 46.00  -1.2
        1.3s   538.00nm          6.6mb
                PP     01 10.00
                PPP    03 12.00
                PS     05 20.00
                eS     09 30.00
LIS   87.44 309 eP     58 50.30   0.4
PTO   87.49 312 iPd    58 51.50   1.4
                iS     07 50.00
                iPS    08 40.00
KHE   87.61 358 iPd    58 52.00   2.1
        1.7s  3070.00nm          7.3mb
                ePP    02 15.00
                iPPP   04 12.00
                iSKS   09 16.00
DLE   88.68 324 eP     58 53.00  -2.5
DMU   89.03 324 eP     58 54.20  -3.0X
        2.1s  5600.00nm          7.5mb
MSZ   89.37 135 eP     58 59.00   0.0
                (pP)   59 10.90  38kmX
                i      59 17.90
KOU   89.66 111 iPc    59 03.20   2.4
MGD   90.26  29 P      59 00.00  -2.8
VAL   90.62 322 iP     59 05.70   1.1
                iS     09 40.00
SKR   91.43  39 eP     59 08.40   0.1
    Z  16s   214.00um          7.7MszX
    N  18s    54.00um
    E  18s    75.60um
                iPPP   04 42.20
                iS     10 12.00
                iPPS   11 53.00
NOU   91.44 113 iPc    59 09.00   0.0
SEY   91.62  27 iPd    59 08.80  -0.2
        2.1s  1320.00nm          6.9mb
                eSKS   09 44.80
                ePS    11 23.00
TEN   91.76 298 eP     59 12.00   1.6
                ePP    03 04.00
                S      10 28.00
PET   93.32  37 iPd    59 15.00  -2.0
        2.0s   830.00nm          6.8mb
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30d 17h

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                    ePP    03 06.00
                    eSKS   09 50.00
                    eS     10 20.00
                    ePS    11 43.00
                    eSS    16 36.00
PVC    93.82 108 iPc     59 16.60  -3.4X
TCW    94.62 132 P       59 22.20  -1.1
CRZ    94.83 125 eP      59 28.00   3.6X
WEL    94.96 132 P       59 24.00  -0.9
     Z  18s   137.00um                7.5Msz
     N  18s    82.50um
     E  18s    96.20um
                    PP     03 20.00
                    PPP    05 30.00
                    SKS    09 56.00
                    e      10 48.00
MNG    95.64 132 P       59 27.80  -0.3
AKU    96.25 335 iP      59 35.70   5.5X
       2.1s   907.00nm              6.9mb
DAG    96.79 347 iPd     59 32.50   0.0
       0.8s    19.40nm              5.7mb
                    i      03 36.00
GNZ    98.04 130 P       59 40.10   1.2
                    e(S)   03 55.00
ILT   103.46  22 iPdiff00 03.00   0.5
       1.6s   100.00nm              6.3mb
                    iPP    04 22.00
                    iSKS   10 44.00
                    eS     11 40.00
                    iPS    13 28.00
ITR   109.05 258 ePdiff00 41.10  12.4X
RDJ   110.25 243 iPdiff00 36.80   3.0X
MBC   110.33   3 ePdiff00 36.00   3.0X
       0.8s    11.00nm
IMA   112.97  19 ePdiff00 52.00   6.9X
AFI   113.35 108 ePKP    04 56.00  14.4X
                    e      05 40.00
                    e      15 12.00
                    e      21 36.00
                    e      33 00.00
VAO   113.50 241 e(Pdif01 04.00  15.6X
                    e      01 11.10
INK   116.27  10 ePKP    04 39.00  -6.6X
       1.5s   373.00nm
BAO   116.63 249 e(PKP)04 49.00   1.0
LPA   117.25 225 ePKP+ 04 56.00   7.5X
     Z  20s   163.00um              7.6Msz
PMR   117.43  21 PKP     04 47.60  -0.4
     Z  20s   250.00um              7.8Msz
SCH   121.95 333 ePKPc 04 56.50  -0.4
       1.0s   122.00nm
                    pP     05 32.50
ATB   123.53 262 PKP     05 00.00  -1.1
TCA   123.87 225 e(PKP)05 03.00   1.6
YKA   124.22   4 ePKP    05 03.40   2.4
RSNT  124.24   4 ePKP    04 59.50  -1.5
YKC   124.24   4 ePKPd 05 00.50  -0.5
       1.1s   169.00nm
RFA   124.37 219 ePKPc 05 03.00   0.7
CON   125.70 214 iPKP    05 07.50   2.8X
MDZ   125.82 221 i(PKP)05 06.90   1.7
FCH   126.45 219 iPKPc 05 09.50   2.8X
BACH  126.56 219 ePKP    05 10.00   3.4X
CEN   126.58 222 ePKP    05 09.00   2.3
LNV   126.73 218 iPKPd 05 11.50   4.8X
PEL   126.82 219 iPKPc 05 05.00  -2.1
JACH  127.07 220 ePKP    05 02.50  -5.1X
FCC   127.10 351 ePKP    05 06.00  -0.6
TLL   128.83 222 ePKP    05 10.00  -1.2
YJA   129.46 234 ePKP    05 03.00  -9.9X
TBI   129.52 128 ePKP    05 17.00   4.7X
       1.6s   455.00nm
BNH   130.68 326 iPKP    05 15.00   1.0
MNT   131.38 328 ePKP    05 16.50   1.3
FFC   132.00 355 ePKP    05 16.00  -0.1
       1.4s   140.00um
AFR   132.07 121 ePKP    05 22.00   4.7X
       1.0s   160.00nm
PAE   132.18 121 ePKP    05 22.00   4.5X
       1.0s    90.00nm
PPT   132.23 121 ePKP    05 22.00   4.4X
       1.0s   125.00nm
PPN   132.37 121 ePKP    05 21.00   3.1X
       1.0s    95.00nm
TVO   132.41 121 ePKP    05 21.00   3.0X
       1.0s   180.00nm
RSNY  132.49 328 iPKP    05 18.80   1.4
OTT   132.53 329 ePKP    05 19.00   1.6
EDM   133.52   5 ePKP    05 09.50  -9.6X
SEG   133.67 286 ePKP    05 25.00   4.6X
MDN   133.68 285 ePKP    05 30.50  10.1X
PAG   133.88 286 ePKP    05 25.00   4.1X
TRN   133.92 278 ePKP    05 22.40   1.5
       1.0s   100.00nm
BPA   133.93 287 ePKP    05 23.50   2.6
LPB   134.30 239 PKP     05 04.00 -18.1X
                    i      05 26.00
                    pP     07 49.00
ZOBO  134.45 239 ePKP    05 14.00  -8.6X
       1.0s   155.00nm
     Z  20s     3.50um              6.1MszX
RSON  134.54 347 ePKP    05 19.30  -1.8
PMO   134.81 119 iPKP    05 25.20   2.7
       1.2s    95.00nm
VAH   134.93 119 iPKP    05 23.30   0.5
       1.2s    80.00nm
TPT   135.05 119 iPKP    05 23.90   0.9
       1.2s    80.00nm
RUV   135.17 119 iPKP    05 23.40   0.2
       1.2s   110.00nm
GUV   135.57 274 ePKP    05 24.20   0.1
PGC   136.28  15 ePKP    05 24.50   0.1
SES   136.49   3 ePKP    05 15.50  -9.4X
PNT   136.51  11 ePKP    05 13.00 -11.9X
       2.0s   276.00nm
SJG   137.83 289 ePKP    05 19.00  -9.3X
     Z  20s   110.00um              7.6Msz
NEW   137.96   9 ePKP    05 20.00  -7.7X
                    e      08 21.00
LDM   138.04   7 ePKP    05 19.70  -8.2X
UTO   139.13 332 ePKPc 05 23.50  -6.5X
CAR   139.36 278 iPKPc 05 31.80   0.5
       1.0s    88.00nm
COR   140.05  17 ePKP    05 34.00   2.5
RKT   140.17 139 iPKP    05 36.40   4.1X
       1.2s   105.00nm
BLA   140.75 324 ePKP-   05 22.80 -10.3X
                    e      05 29.80
                    e      05 46.80
                    ePP    08 27.60
LRM   140.95   5 ePKP    05 25.70  -7.8X
RSSD  142.69 355 ePKP    05 31.30  -5.3X
SDV   143.04 276 ePKP    05 34.80  -3.1X
FHC   143.24  21 ePKP    05 32.80  -4.5X
JSC   143.24 322 iPKP    05 34.80  -2.7X
UAV   143.55 275 ePKP    05 37.00  -1.8
LGN   143.64 278 ePKP    05 41.70   3.0X
WDC   143.92  19 ePKP    05 34.60  -3.8X
BDW   144.16   2 ePKP    05 36.20  -2.9X
MIN   144.43  18 ePKP    05 36.30  -3.2X
FVM   145.16 335 iPKP    05 39.60  -1.0
BMG   145.44 273 ePKP    05 45.00   3.1X
BOCO  146.25 268 ePKP    05 43.00  -0.7
       1.5s  1310.00nm
BOG   146.27 268 iPKP    05 43.50  -0.1
BKS   146.45  21 iPKP    05 43.50   0.7
EUR   146.68  11 i(PKP)05 50.00   6.6X
JAS   146.99  18 ePKP    05 44.50   0.8
GLD   147.13 356 ePKP    05 44.50   0.4
     Z  18s    79.10um              7.5Msz
MHC   147.14  20 ePKP    05 45.50   1.4
GOL   147.19 356 ePKP    05 44.50   0.2
     Z  20s    65.00um              7.4Msz
MNA   147.19  15 ePKP    05 45.30   1.1
GAL   147.53 279 ePKP    05 49.50   4.4X
SAO   147.73  21 ePKP    05 46.40   1.5
FRI   148.09  18 ePKP    05 47.30   1.9
RLO   148.50 340 ePKP    05 46.50   0.3
PRI   148.56  20 ePKP    05 49.90   3.5X
GBO   148.84 340 ePKPd 05 46.80   0.1
TUL   148.99 341 iPKPd-05 47.10   0.2
       1.3s  6060.00nm
     Z  18s   132.00um              7.8Msz
PSO   149.01 261 iPKP    05 49.50   1.4
SIO   149.31 341 ePKP    05 48.30   0.9
RMU   149.75   5 iPKP    05 49.20   1.0
GCA   149.80   6 iPKP    05 52.10   3.8X
CLC   149.80  16 ePKP    05 53.00   4.8X
                    e      05 57.00
OCO   149.87 343 ePKP    05 48.80   0.5
GSC   150.49  15 ePKP    05 50.00   0.7
                    e      05 55.00
MWC   151.16  18 ePKP    05 51.00   0.5
                    e      05 58.00
                    e      09 38.00
SOR   151.26 306 iPKPd 05 51.00   0.3
       4.0s   *******nm
SOR   151.26 306 iPKP-   05 56.00   5.3X
                    e      07 55.00
RVR   151.57  17 ePKP    05 51.00   0.1
                    e      05 58.00
ALQ   151.98 357 ePKP-   05 50.00  -1.7
     Z  20s   181.00um              7.9Msz
NSLM  152.21 336 iPKP    05 54.50   2.7X
PLM   152.32  16 ePKP    05 58.00   5.8X
                    e      05 59.00
                    e      09 45.00
BAR   153.00  16 ePKP    05 55.00   2.0
                    e      06 04.00
                    e      09 57.00
GLA   153.12  13 ePKP    05 55.00   1.9
                    e      06 05.00
HKT   154.35 335 iPKP    05 56.00   1.2
ATX   154.80 339 iPKP    05 55.60   0.2
JCT   155.27 343 ePKP    05 55.30  -0.8
       1.0s   300.00nm
     Z  20s   113.00um              7.7Msz
LPS   160.16 293 ePKP    06 03.00   0.5
                    e      06 47.20
MZX   163.65 355 ePKP    06 07.60   2.0
IIC   164.64 328 ePKP    06 08.30   1.2
VHO   164.97 315 iPKP    06 09.00   1.8
CRX   165.16 328 ePKP    06 08.00   0.5
III   165.88 325 ePKP    06 09.10   1.1
ACX   167.29 323 ePKP    06 09.50   0.7
     S.D. = 1.2  on 439 of 525 obs.

   DEC  22, 1983  04h 11m 29.02± 0.47s
   11.862 N ± 1.6km   13.537 W ± 1.4km
   DEPTH =  10.4 ±  2.8 km
   6.4mb (115 obs.)  6.3Msz ( 26 obs.)
NORTHWEST AFRICA                    (550)
      At least 443 people killed, 200
      reported missing, 150 seriously
      injured and extensive damage in
      the Gaoul-Koumbia area, Guinea.
      Felt in Guinea-Bissau, Senegal,
      The Gambia and Sierra Leone.

MBO     4.17 307 iPd     12 34.20   0.1
KIC    10.26 121 iPd     13 53.50  -5.9X
TEN    16.71 352 iP      15 22.00  -2.8X
                    iS     18 18.10
AVE    22.06  14 iPd     16 25.50  -0.2
IFR    22.89  18 iPc     16 34.00  -0.1
SFS    25.37  14 iP      17 00.00   2.2
                    i      17 33.00
                    iPP    18 01.00
                    iS     21 08.00
                    iSS    23 10.00
ALR    25.79  20 iP      17 03.00   1.3
                    i      17 08.00
CRT    26.75  18 iP      17 11.00   0.2
                    i      17 15.30
                    iPP    18 04.80
ALM    26.81  20 iPc     17 12.70   1.6
       1.0s    14.40nm              4.6mb X
                    ePP    21 42.50
LIS    27.03   8 iPc     17 14.50   1.3
ALI    28.84  22 eP      17 30.00   0.4
ABA    28.97  28 eP      17 33.50   2.7
TOL    29.14  15 iPd     17 31.00  -1.3
                    i      17 35.50
                    ePP    18 18.00
                    ePcP   20 24.00
                    iS     22 19.00
                    i      24 10.00
PTO    29.48   8 iP      17 38.00   2.7
                    iS     22 22.00
SET    29.65  32 eP      17 37.00  -0.1
CAI    29.74 233 iPd     17 37.60  -0.4
       0.8s   104.00nm              5.7mb
EBR    31.38  21 eP      17 53.00   0.9
                    eS     22 55.00
BNG    32.58 100 iPd     18 03.00   0.0
       1.0s   195.00nm              6.0mb
EPF    33.31  19 iPc     18 08.80  -0.2
       1.2s   527.00nm              6.3mb
MLS    33.48  20 eP      18 10.80   0.3
SOB1   34.32 234 eP      18 17.40  -0.7
ERC    34.98  37 eP      18 25.50   2.1
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LPO	35.06	18 eP	18 23.70	-0.4	
	1.2s	963.00nm		6.5mb	
LFF	35.16	18 eP	18 24.80	-0.1	
CAF	35.56	19 eP	18 27.80	-0.5	
	1.1s	696.00nm		6.4mb	
RJF	35.72	18 eP	18 29.10	-0.6	
	1.2s	347.00nm		6.1mb	
GIB	35.81	39 eP	18 31.00	0.4	
		ePP	19 10.50		
LMR	35.84	25 iPc	18 30.70	0.0	
	1.2s	900.00nm		6.5mb	
LRG	35.88	25 iPc	18 31.10	0.1	
	1.2s	810.00nm		6.5mb	
FRF	36.08	25 iPc	18 32.60	-0.2	
	1.2s	594.00nm		6.3mb	
MFF	36.43	16 eP	18 35.50	-0.2	
	1.1s	548.00nm		6.3mb	
LSF	36.58	18 eP	18 36.60	-0.3	
	1.0s	438.00nm		6.2mb	
TCF	36.82	18 eP	18 38.90	-0.1	
MSI	36.90	40 eP	18 42.50	2.9X	
LPF	37.54	14 eP	18 45.00	0.0	
	1.2s	437.00nm		6.1mb	
RDP	37.59	33 eP	18 46.50	1.0	
RMP	37.62	33 iPd	18 48.00	2.3	
		iPP	20 12.00		
		iS	24 36.00		
AVF	37.63	19 eP	18 46.10	0.4	
	1.1s	454.00nm		6.2mb	
SMF	37.66	20 eP	18 46.00	0.0	
	1.1s	537.00nm		6.2mb	
SSF	37.92	19 iPc	18 48.60	0.5	
GRR	37.92	14 iPc	18 48.30	0.2	
	0.7s	343.00nm		6.2mb	
LBF	38.00	20 iPc	18 48.90	0.0	
	1.0s	422.00nm		6.2mb	
MNS	38.02	32 eP	18 49.00	0.0	
LOR	38.21	19 iPc	18 50.80	0.2	
	0.7s	315.00nm		6.2mb	
SGO	38.23	36 eP	18 51.50	0.7	
VG1	38.23	26 eP	18 52.80	2.1	
EWS	38.27	23 ePd	18 51.60	0.3	
POI	38.29	32 iPc	18 51.50	0.3	
LDF	38.29	14 iPc	18 51.30	0.1	
	1.1s	847.00nm		6.4mb	
CSI	38.31	38 eP	18 51.50	-0.1	
ORO	38.32	25 eP	18 51.00	-0.7	
FIR	38.32	29 eP	18 53.50	2.0	
		iS	24 50.00		
FLN	38.36	14 eP	18 51.50	-0.3	
	1.2s	630.00nm		6.2mb	
AQU	38.37	33 eP	18 52.50	0.4	
DIX	38.46	24 ePd	18 53.60	0.5	
DUI	38.47	34 iPc	18 56.50	3.7X	
MMK	38.66	24 ePd	18 55.10	0.4	
ALP	38.76	32 e(P)	18 54.50	-0.7	
TMA	39.07	25 ePd	18 57.10	-1.0	
SAL	39.38	27 eP	19 00.00	-0.4	
BRT	39.54	38 iPc	19 02.50	0.7	
ROF	39.61	22 iPc	19 02.80	0.5	
VDL	39.63	25 ePd	19 01.80	-0.9	
BBS	39.65	22 P	19 02.40	-0.3	
BSF	39.70	21 iPc	19 02.90	-0.3	
LLS	39.74	24 ePd	19 03.00	-0.6	
BAF	39.77	22 P	19 02.80	-1.0	
ZUL	40.00	23 ePd	19 05.30	-0.3	
VAL	40.06	3 iP	19 06.90	1.0	
		iS	25 12.00		
OSS	40.07	25 ePd	19 05.50	-0.8	
VLS	40.15	43 eP	19 06.50	-0.4	
ECH	40.16	22 P	19 06.40	-0.4	
FEL	40.18	23 P	19 06.40	-0.8	
SAX	40.19	24 ePd	19 06.50	-0.9	
CTI	40.22	27 eP	19 07.00	-0.5	
SLE	40.28	23 ePd	19 07.50	-0.3	
CDF	40.36	21 P	19 08.40	-0.2	
OGA	40.58	26 iPc	19 09.80	-0.8	
BUH	40.93	22 ePd	19 13.20	0.0	
DOU	40.94	18 Pd	19 13.10	-0.1	
	1.4s	3910.00nm		6.9mb	
		PP	20 52.30		
		S	25 05.00		
TRI	40.95	29 iPd	19 12.80	-0.5	
		iPP	20 46.00		
		iS	25 28.00		
		iSS	28 26.00		
GWF	40.96	21 P	19 13.20	-0.2	
WLF	41.05	19 P+	19 20.00	6.0X	
		PP	20 58.00		
		S	25 05.00		
GAP	41.08	25 eP	19 13.40	-1.0	
	0.8s	476.00nm		6.3mb	
CEY	41.30	30 ePc	19 15.70	-0.5	
ATB	41.30	251 iP	19 15.50	-1.1	
RBL	41.40	28 iPd	19 17.50	0.4	
UCC	41.50	17 Pd-	19 17.00	-0.7	
	1.2s	880.00nm		6.4mb	
		PP	20 55.00		
		S	25 11.00		
LJU	41.57	30 iPc	19 18.50	0.1	
		iPP	20 55.00		
		eS	25 28.50		
DLE	41.70	6 iPd	19 19.50	0.2	
	0.9s	1520.00nm		6.7mb	
FUR	41.71	25 iPc	19 18.80	-0.7	
	1.4s	145.00nm		5.5mb	
	Z 19s	46.60um		6.4Msz	
		eS	25 35.00		
TTG	41.71	37 e(P)	19 20.10	0.5	
		e	20 59.00		
		e	25 24.50		
KBA	41.77	28 iPd	19 20.00	-0.2	
	2.0s	1340.00nm		6.3mb	
		i	19 21.50		
		i	19 24.30		
		ipPP	21 13.20		
		i	25 39.00		
		i	25 41.30		
OHR	41.88	40 iP	19 22.00	0.9	
ENN	41.94	18 iPd	19 21.50	0.2	
	1.2s	589.00nm		6.2mb	
		i	19 25.80		
		ePP	21 05.00		
KZN	42.05	41 eP	19 23.00	0.4	
ATH	42.19	45 iPd	19 28.00	4.4X	
		ePP	21 02.00		
		iS	25 38.00		
DMU	42.26	6 iPd	19 24.10	0.1	
	1.1s	2280.00nm		6.8mb	
NPS	42.39	50 eP	19 25.50	0.2	
LIT	42.41	42 eP	19 25.00	-0.5	
SKO	42.76	39 iPc	19 28.40	0.2	
	1.3s	850.00nm		6.3mb	
		i	19 30.70		
		iPP	21 06.00		
		iS	25 46.00		
		iSS	29 07.00		
GRG	42.81	41 ePc	19 28.00	-0.7	
KMR	42.85	27 iP-	19 30.20	1.3	
		i	21 06.10		
		e	24 30.00		
DBN	42.89	17 iPd	19 31.00	1.9	
	Z 22s	28.00um		6.1Msz	
		ePP	21 12.00		
		iS	25 59.00		
		eSS	29 12.00		
GRF	42.90	24 iPc	19 28.90	-0.4	
	1.4s	866.00nm		6.3mb	
	Z 19s	21.00um		6.1Msz	
		ePP	21 05.00		
		eS	25 54.00		
THE	43.00	42 eP	19 30.00	-0.2	
VAY	43.11	41 eP	19 31.00	-0.1	
PAIG	43.11	43 ePc	19 30.10	-1.0	
WET	43.14	25 iPc	19 31.00	-0.2	
		eS	25 55.00		
KNT	43.23	41 ePd	19 32.00	-0.1	
WTS	43.28	18 ePd	19 33.00	0.7	
	1.4s	1350.00nm		6.5mb	
		i	19 37.40		
		iPP	21 16.00		
KHC	43.42	26 iPd	19 33.00	-0.6	
	1.0s	232.00nm		5.9mb	
	N 10s	6.60um			
	E 14s	9.90um			
		PP	21 20.30		
		S	26 00.00		
		e	29 24.00		
OUR	43.52	43 eP	19 35.00	0.6	
SRS	43.66	41 ePc	19 35.50	-0.1	
MOX	43.81	23 iPd-	19 36.50	-0.2	
	2.2s	1400.00nm		6.4mb	
	Z 14s	29.00um		6.3MszX	
	N 18s	32.00um			
	E 16s	26.00um			
		i	21 18.50		
		i	26 05.00		
		iSS	29 35.00		
WIT	43.95	18 ePd	19 39.00	1.3	
	1.2s	2000.00nm		6.8mb	
		i	19 43.70		
		ePP	21 21.50		
VKA	44.01	29 ePc	19 36.00	-2.3	
	3.0s	4300.00nm		6.8mb	
	Z 15s	21.30um		6.2MszX	
		i	19 39.70		
		i	20 23.50		
		iPP	21 22.00		
		i	25 55.00		
		i	26 19.70		
		iSKS	27 50.30		
		i	29 24.50		
EKA	44.13	9 Pc	19 39.50	0.4	
	0.8s	129.00nm		5.8mb	
ZST	44.33	29 eP	19 40.40	-0.5	
		e	21 21.00		
		e	23 08.80		
		e	26 29.00		
		e	28 28.90		
PRU	44.48	26 Pd	19 41.30	-0.8	
	2.3s	1450.00nm		6.4mb	
	Z 16s	29.60um		6.3MszX	
	N 14s	28.20um			
	E 12s	21.80um			
		ePP	21 26.00		
		iS	26 16.00		
		i	29 32.00		
SSR	44.61	36 iP	19 45.00	1.8	
SRO	44.66	30 eP	19 43.20	-0.3	
	N 18s	19.10um			
	E 18s	9.30um			
		ePP	21 26.40		
		eS	26 19.20		
		e(SS)	29 26.40		
		eScS	29 38.40		
BUD	44.79	31 iPd	19 44.50	-0.1	
EZN	44.85	44 iPd	19 45.30	0.1	
CLL	44.87	23 iPd	19 44.80	-0.4	
	2.6s	2200.00nm		6.6mb	
		iS	26 21.00		
IZM	44.88	47 eP	19 45.70	0.2	
BRG	44.91	24 iPd	19 45.20	-0.3	
	2.2s	1400.00nm		6.5mb	
		eS	26 21.00		
YER	45.11	49 iPc	19 46.40	-1.0	
CIN	45.15	48 iPc	19 49.20	1.6	
RDJ	45.15	220 eP	19 50.80	3.1X	
HLW	45.27	60 iPd	19 49.00	0.3	
		eS	26 22.00		
PSZ	45.52	31 iPd	19 50.70	0.2	
HAM	45.52	19 iPd	19 51.40	1.1	
BMA	45.60	221 eP	19 52.20	0.8	
		e	20 04.40		
BRN	45.82	23 eP	19 53.00	0.3	
		ePP	21 43.00		
KSP	45.87	26 iPd	19 52.30	-0.8	
	1.4s	518.00nm		6.3mb	
		iPP	21 43.50		
		eS	26 35.00		
MFT	45.94	44 iP	19 54.70	0.8	
DRA	45.97	37 eP	19 56.00	2.0	
EDC	46.14	45 iP	19 55.20	-0.2	
ELL	46.17	50 iPc	19 56.00	0.1	
JOS	46.22	31 ePc	19 56.00	0.1	
	0.6s	60.00nm		5.8mb	
COZ	46.38	37 ePc	19 59.00	1.5	
SPC	46.53	30 eP	19 59.00	0.4	
	1.8s	1800.00nm		6.8mb	
		i	21 12.30		
		i(PP)	21 45.70		
		i	22 57.30		
		e(S)	26 39.30		
CEI	46.71	33 iP	20 07.00	7.2X	
DMK	46.73	43 iPd	19 59.40	-0.7	
CJR	46.75	35 eP	20 00.90	0.7	
CGN	46.76	39 ePd	20 01.00	0.8	
CMP	46.76	37 ePd	20 02.00	1.7	
BUC1	46.87	39 iP	20 03.50	2.4	
CTT	46.88	44 iP	20 00.30	-1.0	
TRN	46.92	274 eP	20 03.20	1.3	
BCK	46.93	49 iP	20 01.40	-0.4	

22d 04h

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KRA     46.96  29 iPd    20 01.30  -0.5
         1.3s   590.00nm          6.5mb
      N  20s    21.60um
      E  20s    31.00um
                  e      20 12.90
                  e      20 15.60
                  i      20 38.10
                  i      21 55.00
                  eS     26 45.00
                  i      30 21.00
UZH     47.21  32 iPd    20 04.50   0.8
         1.3s  1300.00nm          6.9mb
      Z  14s    29.00um          6.4MszX
      N  14s    13.00um
      E  14s    22.00um
                  iPP    21 50.00
                  eS     26 56.00
IST     47.22  44 iPd    20 00.00  -3.9X
                  i      21 54.00
ISK     47.27  44 ePn    20 03.80  -0.5
MLR     47.42  37 iPc    20 05.00  -0.6
HRT     47.58  45 iPn    20 06.30  -0.6
ISR     47.59  38 eP     20 06.50  -0.4
VAO     47.67 223 iPd    20 07.80   0.0
                  i      20 09.30
                  e      20 23.90
GPA     47.81  46 iP     20 08.30  -0.4
MUD     47.84  17 iPd    20 08.20  -0.4
         0.7s   360.00nm          6.6mb
VRI     48.08  37 iP     20 11.00   0.3
COP     48.18  19 iPd-   20 11.90   0.6
         0.7s   356.00nm          6.6mb
                  iS     27 10.00
TLB     48.23  39 iPd    20 12.00   0.2
BSO     48.23  59 eP     20 12.00   0.0
STJ     48.39 325 eP     20 12.00  -1.0
BAC     48.56  37 eP     20 12.00  -2.3
CFR     48.60  39 ePd    20 13.00  -1.6
ASI     48.75  59 eP     20 16.00  -0.2
CLI     48.77  37 iPd    20 15.50  -0.5
PPE     48.79  37 ePc    20 16.00  -0.1
BIR     48.83  37 eP     20 18.00   1.6
LVV     48.84  32 iPd    20 16.30  -0.1
         5.0s  8800.00nm          7.1mb X
                  iPP    22 07.00
                  iPPP   22 54.00
                  iS     27 14.00
                  iSS    30 43.00
JER     48.93  58 ePd    20 17.50   0.0
                  eS     27 24.00
GUV     48.95 270 eP     20 17.60  -0.2
KDE     48.99  45 eP     20 16.10  -1.6
KIS     49.94  37 iPd    20 24.00  -0.9
         6.0s  3600.00nm          6.5mb X
      Z  18s    24.00um          6.2Msz
      N  19s    13.50um
      E  19s    25.00um
                  iPP    22 19.00
                  iS     27 25.00
BER     50.41  12 iP     20 28.00  -0.3
         1.0s     0.50nm          3.4mb X
KON     50.72  15 eP     20 30.30  -0.4
SJG     51.07 284 iPd    20 33.00  -1.0
         0.7s   151.00nm          6.0mb
      Z  20s     9.22um          5.8Msz
KRI     51.30 123 iPd    20 35.00  -0.9
                  iPP    22 36.00
AAE     51.46  88 eP     20 38.50   1.1
NAI     51.68 101 eP     20 42.00   3.1X
         2.0s  1290.00nm          6.5mb
SIM     52.26  42 eP     20 41.00  -1.6
         6.0s  6000.00nm          6.7mb X
      Z  26s    17.50um          6.0MszX
      N  20s    21.00um
      E  20s    13.00um
                  ePcP   21 49.00
                  ePP    22 41.00
                  ePPP   23 47.00
                  eS     27 57.00
                  eSS    31 47.00
BUL     52.27 127 iPd    20 42.00  -1.1
                  ipP    21 00.00  71kmX
                  iPP    22 49.00
                  iS     28 07.00
CAR     52.33 274 eP     20 40.00  -3.7X
         0.7s    27.40nm          5.3mb X
                  iPP    22 00.00
NB2     52.33  15 P      20 41.80  -1.2
         0.9s   350.00nm          6.3mb
REY     52.53 355 iP     20 40.20  -4.1X
                  i      20 48.00
MTD     52.91 122 iPd    20 47.00  -0.9
                  ipP    21 08.00  85kmX
UPP     53.20  19 iP     20 48.50  -0.8
         1.1s   700.00nm          6.5mb
                  iS     28 13.10
AKU     53.85 358 iP     20 54.20   0.3
         1.5s   778.00nm          6.5mb
SWZ     54.11 136 iPd    20 55.30  -1.3
ANN     54.33  43 iPd    20 57.00  -0.8
         2.0s  4000.00nm          7.1mb
      Z  18s    15.50um          6.1Msz
      N  19s    17.00um
      E  19s    18.00um
                  ePcP   21 58.00
                  ePP    23 00.00
                  iS     28 32.50
                  eSSS   34 12.00
TUH     54.66 146 eP     21 01.50   1.1
CER     54.79 146 eP     21 02.90   1.5
BFS     54.93 135 iPd    20 59.00  -3.7X
         1.6s  2270.00nm          7.0mb
ARO     55.13  84 P      21 07.00   2.7
TOV     55.22 274 eP     21 05.00   0.0
SLR     55.26 133 iPd    21 04.00  -1.1
         0.9s   765.00nm          6.7mb
      Z  20s    25.90um          6.3Msz
BPI     55.35 134 iPd    21 04.30  -1.5
PRY     55.42 135 iPc    21 04.50  -1.8
SOC     55.54  45 eP     21 05.00  -1.7
         1.4s   700.00nm          6.5mb
                  iPcP   22 08.00
                  iPP    23 12.00
                  ePPP   24 24.00
                  eS     28 48.00
                  eSS    32 34.00
VIR     55.73 136 iPd    21 06.50  -2.0
BLF     55.94 138 iPd    21 07.00  -3.0X
NUR     56.07  22 iPd    21 09.00  -1.3
         0.7s    88.10nm          5.9mb
                  ePP    23 08.00
                  ePPP   24 24.00
                  eS     29 00.00
                  eSS    32 40.00
SDV     56.16 273 eP     21 11.00  -0.9
EVA     56.30 133 iPd    21 11.00  -1.6
SEK     56.40 136 iPd    21 12.00  -1.3
HVD     56.48 139 iPd    21 12.50  -1.4
LGN     56.61 274 i(P)   21 17.20   2.3
UAV     56.70 273 eP     21 14.60  -1.2
BHD     56.84  58 iPc    21 15.30  -0.9
                  iPP    22 12.80
                  iPP    23 25.30
                  ePPP   24 58.30
                  eS     29 11.80
                  eSS    31 11.30
                  eSSS   35 33.80
                  eLQ    42 31.30
CBM     57.49 319 ePd    21 17.80  -2.8
BKR     57.73  48 iPd    21 21.00  -1.6
         1.4s  1900.00nm          6.9mb
                  iPP    23 32.80
                  iS     29 24.00
                  iSPP   29 42.40
LEN     57.75  49 iPd    21 24.00   1.2
         2.0s  1900.00nm          6.8mb
      N  16s     5.90um
                  iPP    23 38.00
                  ePPP   25 00.00
                  iS     29 23.00
PUL     57.77  24 iPd    21 21.00  -1.3
         3.0s  2600.00nm          6.7mb
      Z  14s    21.00um          6.4MszX
      N  14s    12.00um
      E  14s    20.00um
                  iPP    23 32.00
                  iPPP   24 52.00
                  iS     29 17.00
                  eScS   31 10.00
                  iSS    33 08.00
PYA     57.98  45 iPd    21 23.50  -0.7
         2.0s  2640.00nm          6.9mb
      Z  27s    18.00um          6.1MszX
      N  27s     5.40um
      E  27s    13.50um
                  ePcP   22 09.00
                  iPP    23 32.00
                  iPPP   24 58.00
                  iS     29 26.00
                  eSPP   29 49.00
                  iScS   31 12.00
                  iSS    33 08.00
                  iSSS   35 27.00
SUF     58.10  20 iPd    21 23.80  -0.9
         0.8s   292.00nm          6.4mb
ERE     58.11  50 iPd    21 24.50  -0.7
                  iS     29 29.00
                  iSS    33 21.00
OBN     58.18  31 iPd    21 23.30  -1.9
         1.2s   670.00nm          6.6mb
      Z  18s    28.00um          6.4Msz
      N  18s    11.00um
      E  18s    25.00um
                  iS     29 24.00
                  eScS   31 15.00
                  eSSS   35 28.00
NPA     58.73 116 eP     21 32.00   2.2
                  e      23 43.00
                  e      29 45.00
                  e      43 42.00
BNH     58.91 315 eP     21 30.70   0.1
MOS     58.96  31 iPd    21 30.00  -0.7
         1.9s  2200.00nm          7.0mb
      Z  17s    20.00um          6.3MszX
      N  12s    18.50um
      E  12s    12.70um
                  iPcP   22 22.00
                  iPP    23 42.00
                  ePPP   25 09.00
                  eS     29 30.00
                  ePS    29 51.00
GRM     58.98 141 iPd    21 27.50  -3.8X
         1.2s   797.00nm          6.7mb
      Z  20s    10.30um          6.0Msz
TAB     59.12  53 eP     21 30.00  -2.4
                  i      21 33.00
KER     59.22  57 eP     21 33.50   0.4
                  e      29 32.50
GRS     59.36  51 iPd    21 32.80  -1.3
         1.6s   500.00nm          6.4mb
                  iPP    23 48.00
                  iPPP   25 18.00
                  iS     29 43.40
                  iSPP   30 03.00
KRV     59.58  50 iP     21 34.00  -1.3
                  iS     29 46.00
KJF     59.62  20 iPd    21 34.30  -0.9
         0.8s   317.00nm          6.5mb
                  i      21 40.00
                  ePP    25 08.00
                  eS     29 32.00
                  eSS    33 16.00
SCH     59.63 327 iPc    21 35.00  -0.5
         1.8s   886.00nm          6.6mb
GRO     59.66  47 iPd    21 35.00  -0.8
         1.0s   350.00nm          6.4mb
      Z  26s    21.00um          6.2MszX
      N  18s    18.50um
      E  20s    22.50um
                  iPPP   25 17.00
                  iS     29 50.00
FUO     59.76 269 eP     21 35.50  -1.9
BOCO    60.22 269 iP     21 39.80  -0.8
         1.2s   306.00nm          6.3mb
BOG     60.24 269 iP     21 40.00  -0.7
GPD     60.43 311 eP     21 40.80  -0.4
PRIN    60.51 310 eP     21 41.70   0.0
MNT     60.76 316 iPd    21 42.50  -0.7
         1.8s   305.00nm          6.1mb
MAK     60.84  47 iPd    21 45.00   1.1
         8.0s  6400.00nm          6.8mb X
      Z  14s    14.20um          6.3MszX
      N  16s    19.10um
      E  16s    15.50um
                  iS     30 03.00
                  iSS    34 04.00
LPB     60.88 243 Pd-    21 43.50  -1.5
         1.2s   625.00nm          6.6mb
      Z  18s    27.80um          6.5Msz
                  iS     30 00.00
YJA     61.15 236 ePd    21 45.80  -1.0
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RSNY   61.17 314 iP    21 46.40   0.3
        1.5s   200.00nm          6.0mb
TRO    61.28  12 iP    21 45.70  -0.8
SOD    61.46  17 iP    21 46.20  -1.5
INY    62.17 312 iP    21 52.00  -0.9
                iS    30 20.00
OTT    62.17 315 ePd   21 52.50  -0.3
        1.2s   107.00nm          5.9mb
BAK    62.21  51 iPc   21 56.00   2.8X
        0.4s  7500.00nm          8.2mb X
                iS    30 22.00
SLA    62.38 234 ePd   21 53.00  -1.7
IR4    62.42  56 eP    21 53.70  -1.2
NA12   62.61 307 eP    21 55.40  -0.5
LPA    62.71 220 eP-   21 58.00   1.5
     Z  20s    22.70um          6.3Msz
CVL    63.06 307 eP    21 57.30  -1.6
KEV    63.23  15 iPd   21 58.00  -1.5
        0.8s   469.00nm          6.7mb
                i     22 03.00
                ePP   24 08.00
                ePPP  26 00.00
                eS    30 20.00
SHI    63.50  63 eP    21 59.00  -3.1X
APA    63.54  18 iPc   22 01.20  -0.3
        2.0s   990.00nm          6.7mb
     Z  18s    45.00um          6.7Msz
     N  17s    12.00um
     E  17s    21.00um
                iPcP  22 42.70
                iPPP  25 49.00
                iS    30 34.00
ARE    63.84 245 P     22 02.00  -2.7
PSO    64.12 266 iP    22 06.00  -0.7
CAC    64.19 238 e(P)  22 07.00   0.2
FRB    64.37 336 eP    22 06.00  -1.0
BLA    64.54 306 eP    22 08.90   0.2
UPA    64.84 274 iPc   22 11.00   0.1
        1.0s   104.00nm          6.0mb
     Z  20s     5.67um          5.8Msz
     N  20s     8.87um
NAV    64.85 306 eP    22 10.30  -0.4
DAG    64.96 359 iPd   22 09.80  -0.8
        0.9s   185.00nm          6.3mb
                i     30 47.00
                i     35 07.00
JSC    65.05 302 eP    22 11.90  -0.1
GFM    65.59 304 eP    22 15.60   0.0
LDN    65.68 312 P     22 14.40  -1.4
ELF    65.79 312 P     22 15.20  -1.4
ANT    65.88 237 eP-   22 17.00  -0.4
                eS    31 04.00
                e     42 52.00
PRM    65.96 302 iPc   22 17.50  -0.3
KAT    66.97  52 iPd   22 25.00   0.8
        6.0s  6700.00nm          7.0mb X
                ePcP  22 55.00
                ePP   24 54.00
                iS    31 19.00
                ePPS  31 50.00
                eSS   35 40.00
TKL    67.16 304 eP    22 25.50   0.0
VBA    67.21 220 iPd   22 27.00   1.3
AVY    67.69 116 ePc   22 30.00   0.8
CEN    68.27 229 eP    22 33.00   0.5
VAN    68.35  54 iPd   22 31.00  -1.9
        8.0s  7070.00nm          6.9mb X
     Z  16s    11.30um          6.2MszX
     E  16s     8.16um
                ePP   25 04.00
                eS    31 34.00
                eSS   35 56.00
ASH    68.55  54 eP    22 34.00  -0.1
        5.0s  5660.00nm          7.0mb X
                eS    31 37.00
                ePS   32 02.00
                ePPS  32 14.00
                eScS  32 33.00
RSCP   68.64 304 iP    22 34.50  -0.3
        1.5s   744.00nm          6.7mb
     Z  22s    20.60um          6.3Msz
KHI    68.74  58 ePc   22 34.80  -0.8
MDZ    69.00 228 i(P)  22 38.60   1.6
TLL    69.13 231 eP    22 37.00  -1.1
MHI    69.44  56 iPd   22 38.80  -1.0
        1.0s   320.00nm          6.4mb
                eS    31 44.00
RFA    69.69 226 ePc   22 40.60  -0.6
FCH    70.27 228 iPc   22 45.50   0.4
BACH   70.42 228 eP    22 47.50   1.8
PEL    70.46 228 iPc   22 46.50   0.6
SAN    70.60 228 iP    22 47.50   0.8
PWLA   70.67 303 eP    22 46.60  -0.6
CHCH   70.83 228 iPd   22 49.30   1.2
TACH   70.90 228 eP    22 40.00   0.5
LNV    71.39 228 iPd   22 52.00   0.6
SVE    71.49  34 ePd   22 51.50  -0.2
        3.0s  2170.00nm          6.7mb
     Z  16s    22.00um          6.5MszX
     N  16s    16.00um
     E  16s    12.60um
                ePcP  23 07.70
                ePP   25 32.00
                ePPP  27 20.00
                eS    32 11.00
                eSS   36 42.00
ELC    71.57 305 iPd   22 51.40  -1.1
LHC    71.76 317 iPd   22 52.60  -0.8
        2.0s   907.00nm          6.5mb
                pP    23 07.00  51kmX
FVM    72.50 306 eP    22 56.80  -1.3
        1.8s   458.00nm          6.3mb
POW    73.18 304 eP    23 00.20  -1.9
RSON   74.70 320 iP    23 09.20  -1.4
        1.5s   423.00nm          6.3mb
FCC    75.04 328 eP    23 12.00  -0.4
SAM    75.27  52 iP    23 13.70  -0.5
        2.2s  1400.00nm          6.6mb
     N  16s    23.10um
     E  16s    14.60um
                ePP   26 07.00
                ePPP  27 50.00
                iS    32 51.00
                iSP   33 27.00
KHE    75.39   9 iPd   23 15.00   0.9
        1.5s   750.00nm          6.5mb
     Z  18s    22.00um          6.5Msz
     N  19s     9.10um
     E  19s     9.10um
                ePcP  23 31.00
                iPP   26 00.00
                ePPP  27 44.00
                eS    32 54.00
                eScS  33 26.00
                eSS   37 38.00
COM    75.95 284 iP    23 18.00  -0.6
RLO    76.28 305 iPd   23 19.00  -0.9
BHO    76.30 303 iPd   23 19.90  -0.2
NSLM   76.60 300 iP    23 22.00   0.2
DSH    76.74  53 iPd   23 22.50   0.0
     Z  12s     5.00um          6.0MszX
     N  12s     5.00um
     E  12s     7.00um
                iS    33 07.50
TUL    76.92 304 iPd-  23 22.80  -0.7
        1.6s   924.00nm          6.6mb
     Z  19s     9.20um          6.1Msz
                e     25 15.80
                e(S)  33 09.00
TAS    76.92  50 eP    23 23.00  -0.4
        2.0s   900.00nm          6.5mb
     E  14s    20.00um
                ePP   26 17.30
                ePPP  28 02.30
                eS    33 04.30
                eScS  33 39.00
                eSS   38 16.00
KUL    77.56  54 eP    23 28.20   1.1
        4.2s  2300.00nm          6.6mb X
     N  13s    26.00um
     E  12s    11.30um
                iS    33 20.20
HKT    77.56 298 iP    23 27.00  -0.1
GAR    77.90  52 eP    23 29.30   0.3
        2.0s   900.00nm          6.5mb
     N  18s    11.00um
                eS    33 16.30
                eSKS  33 32.00
                eSS   38 20.30
OCO    78.32 304 eP    23 31.00  -0.2
KHO    79.01  54 eP    23 36.40   1.2
        2.0s  4800.00nm          7.2mb
                ePP   26 37.90
                ePPP  28 30.00
                eS    33 32.00
                ePS   34 18.00
ATX    79.27 299 iP    23 36.50   0.0
ANR    79.28  50 eP    23 37.00   0.6
        2.0s   880.00nm          6.4mb
     Z  16s     6.50um          6.1MszX
     N  16s    27.00um
     E  16s    13.00um
                eS    33 33.00
FFC    79.53 324 iPd   23 47.80  10.4X
        1.7s   692.00nm
FRU    80.70  48 iPd   23 44.00   0.0
        2.4s  1670.00nm          6.6mb
     Z  14s     6.30um          6.1MszX
     N  17s    12.50um
                iS    33 51.00
                eSS   39 00.00
IIT    81.34 288 eP    23 49.30   1.3
NRN    81.92  49 iPd   23 51.00   0.2
                eS    34 00.00
IIC    82.10 289 eP    23 53.80   1.7
KSH    82.20  51 eP    23 54.00   2.0
                iS    34 11.00
RSSD   82.21 313 iP    23 52.80   0.7
        1.5s   178.00nm          6.0mb
MBC    82.28 347 eP    23 52.30   0.8
        0.7s   147.00nm          6.2mb
AAA    82.33  47 iPd   23 54.80   2.3
        6.0s     5.50nm          3.9mb X
                iS    34 11.80
                eSPP  35 15.80
                eSS   39 26.80
III    82.53 287 ePd   23 55.60   1.4
TLG    82.65  47 eP    23 54.10  -0.1
        2.0s   230.00nm          6.0mb
                iS    34 15.00
NRI    83.04  20 iPd   23 56.50   0.9
        2.2s   280.00nm          6.1mb
     Z  22s    25.70um          6.6Msz
     N  20s     9.30um
     E  22s    17.60um
                ePP   27 12.00
                ePPP  29 04.00
                eS    34 17.00
                eSS   39 40.00
ACX    83.16 286 eP    23 58.10   0.9
SEM    83.36  40 iPd   23 58.10   0.5
        4.6s  5560.00nm          7.1mb X
                ePP   27 11.50
                ePPP  28 59.10
                eSKS  34 15.70
PRZ    83.52  48 eP    24 00.50   1.7
        1.0s   690.00nm          6.8mb
     Z  14s     5.40um          6.1MszX
     N  14s    19.20um
     E  14s     8.40um
                ePP   27 19.00
                eS    34 20.00
                eSP   35 08.00
                eSPP  35 34.00
GLD    83.81 309 iP    24 01.50   1.1
        1.5s  1060.00nm          6.8mb
     Z  18s    12.00um          6.3Msz
GOL    83.93 309 iP    24 02.10   1.0
        1.5s   314.00nm          6.3mb
     Z  18s     7.37um          6.1Msz
NVL    84.24 172 eP    24 03.00   1.5
                eS    34 24.00
NVS    84.30  35 iPd   24 02.50   0.3
        0.7s   720.00nm          7.0mb
                iS    34 25.70
YKC    84.57 333 ePd   24 03.50   0.0
        1.8s   400.00nm          6.3mb
RSNT   84.63 333 ePd   24 04.10   0.4
        1.5s   267.26nm          6.3mb
YKA    84.63 333 eP    24 05.10   1.4
NDI    85.06  62 iPd   24 06.50  -0.1
        0.5s   120.00nm          6.4mb
                iPP   27 22.00
                iPPP  29 22.00
ALQ    85.67 305 iPd   24 11.00   1.2
        1.7s   673.00nm          6.6mb
     Z  22s     8.89um          6.1Msz
SES    85.69 320 eP    24 10.00   0.6
        1.4s     8.00nm          4.7mb X
ELT    86.38  36 iPd   24 01.10 -11.5X
        2.3s   310.00nm
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22d 04h

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                 eS     34 39.00
EDM    86.40 324 ePd    24 13.20   0.4
BDW    86.42 313 ePd    24 12.50  -0.9
LRM    87.71 316 ePd    24 20.50   0.9
BUT    87.74 316 eP     24 22.10   2.4
TMI    87.97 314 eP     24 20.70  -0.2
MZX    88.02 293 eP     24 22.80   1.7
GBA    88.19  77 Pc     24 21.30  -0.8
       0.9s   117.00nm          6.2mb
HYB    88.47  73 ePd    24 23.50   0.0
       1.0s   350.00nm          6.6mb
HPI    88.70 314 eP     24 25.00   0.5
RMU    88.78 308 iP     24 26.20   1.4
KOD    88.90  80 eP     24 27.20   1.3
MSU    89.35 399 eP     24 28.30   0.7
DUG    89.40 311 eP     24 27.50  -0.2
INK    89.56 341 iPd    24 27.90   0.2
       1.8s   554.00nm          6.5mb
WMO    89.83  45 Pd     24 30.50   0.9
                 ePP    27 52.00
                 S      35 25.00
NEW    90.10 319 eP     24 29.00  -1.6
     Z  18s     6.00um          6.1Msz
PNT    91.32 321 eP     24 37.00   0.8
       2.0s   526.00nm          6.5mb
UER    91.46  37 iPd    24 36.00  -0.7
                 eS     35 35.50
                 eSPP   37 16.00
EUR    91.94 311 iP     24 40.00   0.5
       0.8s    33.60nm          5.8mb
KKN    92.19  61 iPd    24 40.90   0.0
PKI    92.36  61 iP     24 41.60  -0.2
       0.7s   110.00nm          6.4mb
BMN    92.57 312 ePd    24 42.30   0.0
       2.0s   629.46nm          6.7mb
GLA    92.87 304 eP     24 44.00   0.3
TIK    92.99  11 eP     24 43.50   0.1
       1.2s    80.00nm          6.0mb
                 ePP    28 22.00
                 ePPP   30 30.00
                 eSKS   35 14.00
                 eS     35 51.00
                 ePS    37 08.00
                 eSPP   37 34.00
BRW    93.41 349 eP     24 47.20   1.8
LON    93.60 319 eP     24 46.80   0.0
GSC    93.80 307 eP     24 48.00   0.0
                 e      28 33.00
MNA    93.88 310 eP     24 48.60   0.2
CLC    94.26 308 eP     24 53.00   2.9X
VPEM   94.39 308 eP     24 52.20   1.4
PLM    94.42 305 eP     24 52.00   1.0
                 e      28 48.00
CWC    94.44 308 eP     24 52.00   1.0
                 e      28 35.00
BAR    94.47 305 eP     24 51.00   0.0
RVR    94.64 306 eP     24 52.00   0.2
SBB    94.78 307 eP     24 52.00  -0.5
                 e      28 38.00
ISA    94.99 308 eP     24 54.00   0.6
                 e      28 43.00
MWC    95.11 306 eP     24 55.00   0.8
                 e      28 03.00
PAS    95.22 306 eP     24 55.00   0.6
       1.6s   100.00nm          6.0mb
                 e      28 44.00
FRI    95.51 309 eP     24 55.10  -0.6
JAS    95.74 311 ePd    24 57.00   0.2
                 ePP    28 45.00
MIN    95.76 313 eP     24 57.20   0.2
COL    96.12 342 eP     24 58.00   0.0
       0.9s    10.10nm          5.3mb X
     Z  19s    14.60um          6.5Msz
                 eS     37 36.00
FBA    96.12 342 e(P)   24 58.30   0.3
WDC    96.34 314 ePd    24 58.00  -1.4
PRI    96.51 309 iPd    25 00.90   0.4
LSA    96.62  58 P      25 02.00   0.5
MHC    96.84 310 eP     25 02.40   0.5
IRK    96.89  33 eP     25 01.20  -0.5
       2.4s   200.00nm          6.3mb
                 eSKS   35 40.00
                 eS     36 20.00
                 eSP    37 44.00
                 ePPS   38 28.00
BKS    97.09 311 ePd    25 03.60   0.7
     Z  20s     6.00um          6.1Msz
     N  20s     1.80um
     E  20s     7.00um
                 ePP    29 07.00
                 eSKS   35 48.00
                 eS     36 38.00
                 eSP    38 00.00
                 eSS    43 25.00
                 ePSPS  44 14.00
ZAK    97.23  35 iPd    25 04.40   1.2
       2.2s   270.00nm          6.5mb
                 eSKS   35 39.00
FHC    97.28 314 eP     25 02.50  -1.2
BOD    98.49  25 eP     25 07.70  -1.1
       1.2s    30.00nm          5.8mb
ILT    99.73 354 eP     25 19.00   4.8X
     Z  20s    13.00um          6.4Msz
     N  20s     9.00um
     E  20s     7.00um
                 ePP    29 18.00
                 eSKS   35 54.00
                 eSP    38 14.00
                 eSS    43 40.00
GTA    99.87  46 eP     25 15.80   0.2
YAK   100.95  17 ePdiff25 19.20  -0.4
     N  20s    11.00um
     E  20s    19.50um
                 iPP    29 22.80
                 ePPP   31 44.80
                 iSKS   35 55.80
                 eS     36 49.80
SPA   101.78 180 ePdiff25 28.30   4.8X
       2.0s    52.90nm          5.8mb
TUP   103.15  26 ePdiff25 33.00   3.4X
LZH   104.18  48 ePdiff25 36.00   1.1
                 PP     29 58.50
SEY   104.68   7 ePdiff25 53.00  16.8X
     N  21s     9.00um
     E  20s    11.40um
                 iPP    30 00.20
                 ePS    39 12.00
CD2   106.35  53 Pdiff 25 47.40   2.9X
CHG   106.81  66 ePdiff25 40.00  -6.7X
BDT   107.36  68 e(PKP)30 02.00   3.8X
       1.1s    59.30nm
TIY   109.37  43 ePKP  29 41.00 -20.6X
BJI   110.45  39 ePdiff26 06.00   3.6X
     Z  19s    17.00um          6.6Msz
     N  20s    15.00um
                 e      29 40.00
                 PP     30 37.50
                 PPP    32 53.50
                 PS     39 58.00
GYA   110.55  96 PKP   30 04.00  -0.2
PSI   111.35  82 ePKP  29 48.00 -17.9X
IPM   112.92  80 ePKPd 30 08.30  -0.6
CN2   113.20  31 Pdiff 26 19.00   4.4X
CN2   113.20  31 PKP   30 07.00  -1.6
                 PP     30 54.70
                 SKS    37 18.00
TIA   113.31  42 ePKP  30 15.10   6.0X
PPI   113.50  85 ePKP  30 04.50  -5.6X
NJ2   116.91  45 PKPd  30 15.00  -1.1
                 iPP    31 37.00
SHK   123.81  34 ePKP  30 27.90  -1.3
MAT   124.99  28 iPKPc 30 30.80  -0.6
     Z  20s     5.85um          6.2Msz
DDR   125.88  27 ePKP  30 31.50  -1.8
TSK   126.11  26 ePKP  30 32.60  -1.1
BAG   126.63  59 ePKP  30 34.00  -1.4
TRT   126.86  91 iPKPc 30 35.00  -0.7
       0.8s    63.60nm
CVP   127.03  57 ePKPc 30 19.50 -16.3X
OCP   127.90  61 ePKP  30 49.00  11.4X
PPR   127.92  68 ePKP  30 39.00   1.3
MUN   129.76 122 ePKP  30 41.00   0.3
NWAO  130.40 123 ePKP  30 44.00   2.1
BAL   130.45 120 ePKP  30 42.00  -0.1
MEK   132.71 115 ePKP  30 46.00  -0.5
       0.8s    61.00nm
RUV   135.07 260 iPKP  30 55.00   3.8X
       1.2s    80.00nm
TPT   135.29 261 iPKP  30 55.60   4.0X
       1.2s   190.00nm
VAH   135.31 260 iPKP  30 55.60   4.0X
       1.2s   150.00nm
PMO   135.56 261 iPKP  30 55.90   3.8X
       1.2s   135.00nm
TVO   136.86 257 ePKP  30 59.00   4.4X
       1.2s   390.00nm
PPN   137.04 257 ePKP  30 59.00   4.1X
       1.2s    90.00nm
PPT   137.18 257 ePKP  31 00.00   4.8X
       1.2s   125.00nm
PAE   137.18 257 ePKP  31 00.00   4.9X
       1.2s    75.00nm
AFR   137.37 257 ePKP  31 01.00   5.5X
       1.2s   150.00nm
WBN   139.88 117 ePKP  30 51.00  -9.0X
KNA   143.22 100 ePKP  31 01.00  -5.0X
MTN   145.49  95 iPKPc 31 09.00  -0.9
ADE   145.89 137 iPKPd 31 10.90   0.7
RAR   146.39 250 PKP   31 14.00   2.7X
GUMO  146.86  41 ePKP  31 13.00   0.9
BFD   146.89 144 ePKP  31 12.00   0.4
ASPA  146.93 115 ePKP  31 11.00  -1.1
GUA   146.93  41 ePKP  31 13.00   0.7
       0.8s   137.00nm
MSZ   147.28 182 PKP   31 14.00   2.0
                 PKS    34 57.20
WRA   148.13 109 PKPc  31 14.60   0.5
       0.7s    26.40nm
WB2   148.14 109 ePKP  31 14.20   0.1
                 ePP    34 45.50
TOO   148.24 147 ePKP  31 14.00   0.1
STK   149.64 135 ePKP  31 16.00  -0.1
SNZO  149.79 192 ePKP  31 24.00   8.0X
       1.0s   480.00nm
WEL   149.80 192 PKP   31 21.60   5.5X
       1.0s   656.00nm
TCW   149.97 192 PKP   31 20.80   4.5X
WAM   151.04 150 ePKP  31 19.20   1.1
                 e      32 39.00
GNZ   151.41 199 PKPc  31 29.00  10.5X
CAN   151.78 149 ePKP  31 19.90   0.6
                 i      32 30.50
                 e      33 30.10
YOU   152.26 146 iPKP  31 20.80   0.8
                 e      34 25.30
CMS   152.72 139 ePKP  31 20.00  -0.7
ISO   152.75 112 ePKP  31 21.00  -0.1
KRP   152.81 196 ePKP  31 30.00   9.4X
RIV   154.05 150 ePKP  31 23.00   0.6
COO   157.00 146 ePKP  31 27.00   0.4
       1.1s   132.00nm
AFI   158.69 262 PKP   31 31.00   2.1
CTA   158.94 115 iPKPd-31 29.30   0.3
       2.0s   271.00nm
PAA   167.84  64 ePKP  31 38.00   0.4
NOU   169.61 180 iPKPd 31 41.90   3.6X
KOU   171.10 167 iPKPc 31 41.20   2.1
HNR   173.16  70 ePKP  31 42.00   1.9
      S.D. = 1.0  on 412 of 465 obs.

   DEC  30, 1983  23h 52m 39.17± 0.16s
   36.397 N ± 1.5km   70.752 E ± 0.9km
   DEPTH = 206.5 ±  1.5 km
   6.7mb ( 82 obs.)
HINDU KUSH REGION                (71B)
      Twelve people killed, 483
      injured and extensive damage in
      the Kabul and Samangan areas,
      Afghanistan. Fourteen people
      killed, hundreds injured and
      moderate damage in the Peshawar
      area, Pakistan. Some damage
      (VII) in Tajikistan, USSR. Felt
      in much of northwestern
      Afghanistan, northern Pakistan,
      northern India and in
      Tajikistan, Uzbekistan and
      Kirghizia, USSR.

KHO     1.25  30 iPn    53 13.10   1.2
                 eSn    53 38.10
KUL     1.70 332 iPnc   53 16.00   0.4
OBG     2.46 341 iPn    53 23.00  -0.5
CGT     2.58 331 iPn    53 54.00  29.3X
GAR     2.62 353 iPn    53 24.80  -0.5
                 eSn    53 57.80
DSH     2.67 325 iPnc   53 25.20  -0.6
DZE     2.91 323 iPn    53 26.70  -1.8
MUR     3.21  51 iPn    53 33.70   1.2
URT     3.77 339 iPn    53 38.00  -0.8
FRG     4.06  11 iPnd   53 43.00   0.5
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                 iSn   54 31.50
SAM     4.42 319 iPnd  53 46.10  -0.9
                 iSn   54 39.40
ANR     4.53  16 P     53 47.50  -0.9
NAM     4.64   9 iPnd  53 49.80   0.2
                 iSn   54 44.40
TAS     5.05 347 iPnd  53 54.50  -0.5
                 iSn   54 49.00
KSH     5.14  52 iPd   53 58.00   1.8
NRN     6.48  38 iPnd  54 12.00  -1.8
                 iSn   55 23.30
QUE     6.96 208 iPd-  54 20.00   0.2
FRU     7.09  24 iPnd  54 21.00  -0.3
                 iSn   55 41.00
PRZ     8.48  42 iPnc  54 39.00  -0.7
    N  10s   396.00um
TLG     8.55  35 iPnd  54 38.60  -1.8
    Z  14s   520.00um
                 iSn   56 18.00
MHI     9.08 273 iPnd  54 45.20  -2.2
      0.4s  2370.00nm          6.8mb
                 eSn   56 04.00
NDI     9.43 143 iPd   54 51.00  -0.8
      0.5s   585.00nm          6.1mb
                 iS    56 25.00
ASH    10.02 283 iPc   54 57.50  -1.9
                 iS    56 49.00
KHI    10.15 261 iPd   55 01.00  -0.4
VAN    10.22 283 eP    54 59.00  -3.0X
      3.0s  *******nm          7.5mb
KAT    11.80 288 iPd   55 19.00  -3.2X
WMO    14.92  55 iPd   56 00.60  -0.7
                 S     58 45.00
DMN    14.99 122 eP    56 01.30  -1.1
KKN    14.99 121 eP    56 01.10  -1.3
PKI    15.22 121 eP    56 04.10  -1.2
SEM    15.59  23 iPd   56 07.40  -2.0
      2.3s  8540.00nm          6.8mb
TEH    15.68 273 eP    56 13.00   2.3
IR4    16.15 272 iPd   56 17.10   0.7
SHI    16.69 251 iPd   56 22.50  -0.5
LNK    17.53 284 eP    56 29.00  -2.9
POO    18.00 170 iPd   56 38.60   1.5
LSA    18.34 105 iPc   56 43.50   2.4
                 S     00 00.50
MAK    19.09 297 iPc   56 48.70   0.6
      6.0s  8200.00nm          6.4mb X
    Z  13s   352.00um
    N  14s   456.00um
    E  14s   713.00um
                 iS    00 10.80
KER    19.38 271 iP    56 52.50   1.1
GRS    19.49 287 P     56 53.60   1.1
TAB    19.51 282 ePc   56 54.00   1.3
                 i     56 56.00
HYB    20.13 158 iPd   57 00.00   1.1
                 iS    00 28.00
NAK    20.21 286 iPc   57 00.50   1.0
GRO    20.41 298 iPc   57 02.50   1.1
      1.0s  5700.00nm          7.1mb
                 iS    00 39.00
NVS    20.42  21 eP    57 00.00  -1.4
MTA    20.80 293 iPc   57 06.80   1.5
                 eS    00 43.00
ERE    20.92 288 iPc   57 09.00   2.3
STE    21.05 291 iPc   57 09.20   1.2
LEN    21.44 290 iPc   57 16.00   4.2X
      3.0s  *******nm          7.7mb X
SVE    21.52 345 iPc   57 13.00   0.7
    Z  15s   815.00um          7.2MszX
    N  15s   638.00um
    E  15s   235.00um
                 iS    00 53.00
                 iPP   57 53.00
ARU    21.63 341 iPc   57 14.50   1.2
    Z  18s   458.00um          6.9Msz
    N  20s   299.00um
    E  16s   443.00um
                 iS    01 00.50
                 eSS   01 52.00
                 ePP   57 52.50
                 esP   58 20.50
AKH    21.76 292 iPd   57 19.60   4.7X
BKR    21.76 293 iPc   57 16.80   1.9
                 iS    01 03.70
BHD    21.84 270 iPc   57 16.50   0.9
                 iS    01 03.00
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                 iPP   57 50.00
MSL    22.20 278 ePd   57 20.50   1.5
                 iS    01 02.50
ABS    22.27 292 iPc   57 22.40   2.7
                 ePcP  01 16.00
PYA    22.41 298 iPc   57 21.00   0.0
      1.0s  3500.00nm          6.9mb
                 iPP   57 56.00
ZUG    23.05 294 iP    57 28.00   0.8
GTA    23.09  74 iPc   57 29.80   2.0
                 S     01 27.50
                 pP    58 05.50 185kmX
SOC    24.74 296 eP    57 42.00  -1.0
MOY    26.32  45 iPc   57 58.80   1.4
ANN    26.61 299 iPc   57 59.50  -0.6
      1.0s  2700.00nm          6.9mb
                 eS    02 18.00
                 iPP   58 48.00
LZH    26.62  81 iPc+  58 02.00   1.5
                 iS    02 27.00
                 isS   03 27.00
                 iSS   03 59.00
                 isP   58 54.00
ZAK    27.21  49 iPc   58 06.50   1.1
      2.0s  4340.00nm          6.8mb
                 eS    02 33.00
                 ePP   58 56.80
KVT    27.36 291 iP    58 07.00   0.1
CD2    27.93  92 iP    58 14.00   1.8
                 S     02 40.00
                 sP    59 25.00
IRK    28.45  45 P     58 16.00  -0.6
HRI    28.81 274 iP    58 21.50   1.4
SIM    28.87 299 P     58 19.00  -1.4
MGI    29.30 273 iP    58 22.50  -1.7
KMI    29.57 103 iP    58 27.00   0.0
                 iS    03 08.00
                 pP    59 06.00 191kmX
                 sP    59 39.00
MOS    29.61 321 iPc   58 26.00  -0.8
                 eS    03 04.00
                 isS   04 18.00
JER    29.70 272 ePc   58 29.00   1.1
OBN    29.89 320 P     58 28.00  -1.2
BSO    30.44 271 iP    58 31.50  -2.8
KDE    30.83 291 iP    58 36.50  -1.1
BTO    30.84  70 iPc   58 38.50   0.7
                 S     03 28.00
XAN    31.14  83 iPc   58 41.00   0.6
                 S     03 30.00
BDT    31.43 120 iPc   58 44.40   1.4
GPA    31.76 290 iPc   58 45.70  -0.1
BCK    31.96 284 iP    58 45.90  -1.7
HHC    31.99  69 iPc   58 49.00   1.2
                 S     03 45.00
                 pP    59 34.00 220kmX
GYA    32.05  98 Pc    58 51.00   2.5
                 S     03 45.00
ALT    32.07 287 iP    58 48.00  -0.5
HRT    32.19 291 iP    58 49.10  -0.4
ELL    32.63 283 iPc   58 52.90  -0.6
ISK    32.63 291 iPc   58 53.40   0.2
KIS    32.67 302 iPc   58 53.00  -0.5
    Z  19s   168.00um          6.8Msz
                 iS    03 53.00
                 ipP   59 33.00 192kmX
KHT    32.87 124 iPc   58 58.50   3.0X
TIY    33.10  75 iPc   58 58.00   0.6
                 sP    00 11.00
                 PcP   01 39.00
                 S     04 00.00
                 ScP   05 04.00
                 sS    05 10.05
                 pP    59 46.50 239kmX
PSN    33.10 296 iPc   58 58.00   0.8
DST    33.13 289 iPc   58 57.60  -0.1
HLW    33.47 270 iPc   59 02.00   1.4
PPE    33.49 301 iPd   59 01.00   0.4
DMK    33.53 293 iPd   59 00.80  -0.2
EDC    33.61 290 iPd   59 01.40  -0.3
CLI    33.73 301 iPc   59 03.00   0.3
YER    33.82 284 iPc   59 01.70  -1.9
BAC    34.00 301 eP    59 05.00   0.1
VRI    34.11 300 iPc   59 06.00   0.1
ISR    34.24 299 iPc   59 08.00   0.9
JMB    34.35 294 iPd   59 09.00   1.1
IZM    34.37 287 iPc   59 08.10  -0.2
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NRI    34.40  11 iPc   59 07.70  -0.3
                 esP   00 20.00
                 ePP   00 37.00
                 iS    04 18.00
CVO    34.49 300 iPc   59 10.00   0.8
BUC1   34.63 297 iPc   59 12.00   1.7
MLR    34.66 299 iPc   59 12.00   1.3
CGN    34.66 297 iPc   59 12.00   1.5
EZN    34.86 289 iPd   59 12.60   0.4
PUL    34.88 325 iPc   59 13.00   0.8
    Z  24s   210.00um          6.8MszX
    N  11s   300.00um
    E  24s   210.00um
                 isP   00 20.00
                 iPP   00 40.00
                 iPcP  01 36.00
                 iS    04 27.00
                 isS   05 40.00
                 iSS   06 52.00
                 iScS  09 12.00
                 ipP   59 58.00 218kmX
PRK    34.99 288 ePc   59 13.00  -0.4
DIM    35.13 293 iPc   59 15.00   0.5
NNT    35.22 125 iPc   59 18.20   2.7
PVL    35.33 295 iPc   59 17.00   0.8
KDZ    35.34 293 iPc   59 16.00  -0.4
                 iS    01 04.00
BJI    35.58  70 iPc   59 19.00   0.7
                 sP    00 28.00
                 ePP   00 46.50
                 S     04 42.50
                 PcS   05 29.00
                 sS    05 56.00
                 ScS   09 12.00
PLD    35.77 294 iPd   59 20.00   0.1
COZ    35.79 299 iPc   59 21.00   0.7
DRA    35.88 298 eP    59 22.00   1.2
LVV    36.06 307 P     59 23.50   1.2
CJR    36.27 301 iP    59 25.60   1.5
NPS    36.36 282 ePc   59 24.60  -0.4
OUR    36.55 291 iPc   59 27.00   0.5
MMB    36.56 293 iP    59 26.00  -0.6
WHN    36.60  86 iPc   59 28.80   1.8
SRS    36.72 292 iPc   59 28.20   0.2
DEV    36.78 300 ePc   59 30.50   2.2
VTS    36.82 295 iP    59 31.00   2.3
CEI    37.04 303 eP    59 33.00   2.5
TIA    37.09  76 iPc   59 32.20   1.1
                 pP    00 20.00 225kmX
                 sP    00 44.00
                 PP    01 08.00
                 S     05 05.50
                 ScS   09 18.60
UZH    37.15 305 iPc   59 32.50   1.1
      2.0s  5400.00nm          6.8mb
                 ePP   01 00.00
                 ePcP  01 52.00
                 iS    04 55.00
ATH    37.20 287 iPc   59 32.50   0.6
                 eS    04 50.00
KNT    37.24 292 iPc   59 32.30   0.0
THE    37.27 291 iPc   59 33.20   0.7
VAY    37.46 293 iPc   59 34.00  -0.1
GRG    37.64 292 iPc   59 35.00  -0.7
APA    37.67 338 iPd   59 35.00  -0.5
      1.3s  5600.00nm          7.0mb
                 ipP   00 14.00 182kmX
                 isP   00 48.00
                 iPP   01 06.00
                 iS    05 09.00
LIT    37.72 291 eP    59 37.10   0.8
NUR    37.79 324 iPc+  59 37.00   0.4
KJF    37.88 331 iPc+  59 37.80   0.5
SUF    37.90 328 iPc   59 38.00   0.5
      0.5s   224.00nm          6.0mb
TUP    38.02  46 iPc   59 39.80   1.2
      1.0s   820.00nm          6.3mb
BSI    38.12 138 iPc   59 38.50  -1.3
                 e     05 14.00
SKO    38.20 294 iPc   59 40.40   0.1
                 iS    05 17.00
KZN    38.22 291 iPc   59 40.00  -0.6
JOS    38.32 304 iPc   59 41.60   0.4
SPC    38.51 306 eP    59 44.60   1.6
                 eS    05 13.60
KRA    38.71 307 iPc   59 44.70   0.3
      1.5s  4700.00nm          6.9mb
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30d 23h

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     Z  18s   145.00um          6.8Msz
                 i     04 44.00
                 iS    05 24.00
                 i     59 45.30
PSZ    38.76 304 iPc   59 46.60   1.6
OHR    38.81 293 iPc   59 44.10  -1.3
                 i     01 30.50
                 iS    05 24.10
GZH    38.98  98 iPc   59 48.00   1.1
                 pP    00 35.50 226kmX
                 sP    01 00.00
                 PP    01 27.00
                 iS    05 30.00
                 sS    06 51.00
BUD    39.37 303 iPc   59 50.00   0.2
     2.0s  5250.00nm          6.8mb
VLS    39.56 288 eP    59 50.50  -1.0
MCO    39.64  99 iP    59 54.90   2.6
NJ2    39.69  82 iPc   59 53.50   0.9
                 i     00 34.00
                 ScP   05 23.80
                 iS    05 43.00
                 ScS   09 36.20
TTG    39.73 295 iPc   59 52.50  -0.3
                 e     00 00.21
                 ePPP  01 33.00
                 iS    05 40.00
SOD    39.75 335 iP    59 52.70   0.1
ULC    39.81 294 iPc   59 52.40  -1.2
                 eS    05 39.80
AAE    39.82 235 eP    59 56.50   2.3
SRO    39.83 303 iPc   59 53.70   0.1
                 eS    05 36.10
DL2    39.94  71 iPc   59 55.50   0.9
                 i     00 37.00
                 S     05 49.00
HKC    40.04  98 iP    59 57.50   2.0
                 iS    06 20.00
BRY    40.18 296 iPc   59 56.40  -0.3
                 eS    05 48.30
HCY    40.29 295 iPc   59 56.60  -0.8
                 eS    05 47.70
ZST    40.62 304 eP    00 00.00  -0.1
                 e     09 07.50
SNY    40.81  66 iPc   00 01.70   0.0
                 ScP   05 30.00
                 iS    05 50.00
KEV    40.82 338 iPc+  00 02.00   0.6
BLY    40.89 299 eP    00 04.00   1.6
UPP    41.03 322 iPc   00 02.90  -0.3
                 iS    05 55.00
KSP    41.04 308 iPc   00 03.80   0.3
     0.9s  1020.00nm          6.3mb
                 iPP   01 46.00
VIE    41.11 304 iP+   00 05.20   1.1
                 isP   01 19.00
                 iPP   01 48.00
                 (PPP) 02 26.00
                 iS    06 04.80
VKA    41.14 304 iPc   00 05.10   0.7
     1.0s  1720.00nm          6.5mb
                 i     00 06.00
                 i(sP) 01 22.00
                 iPP   01 48.00
                 i     05 34.00
                 iS    06 01.50
                 iSS   09 05.00
BRT    41.53 293 iPc   00 07.00  -0.6
CN2    41.83  62 iPc   00 09.80  -0.3
SSE    41.89  82 iPc+  00 11.50   0.9
     5.0s    49.30nm          4.3mb X
   E  13s   101.00um
                 (pP)  00 59.00 224kmX
                 sP    01 12.00
                 PP    01 49.00
                 i     03 02.00
                 PcS   05 57.00
                 iS    06 13.00
                 sS    07 21.00
                 SS    09 20.00
                 (ScS) 09 36.00
IPM    42.14 132 ePc   00 14.20   1.3
                 e     00 38.10
                 e(S)  00 56.60
                 e     01 12.90
                 e     01 26.20
                 e     01 58.90
                 i     02 43.70
                 e     03 31.90
PRU    42.20 307 iPc   00 13.50   0.6
     2.0s  5820.00nm          6.7mb
                 i     05 31.50
                 S     06 14.00
ORI    42.27 292 iPc   00 13.50  -0.1
OZH    42.32  92 iPd   00 14.50   0.3
                 pP    00 59.50 210kmX
                 S     06 20.50
                 ScS   09 52.00
BRG    42.53 308 iPc+  00 16.10   0.5
                 (sP)  01 26.00
                 iScP  05 34.00
                 iS    06 19.00
                 esS   07 43.00
LJU    42.58 301 iPc   00 16.60   0.5
                 i(pP) 01 08.70 249kmX
                 iPP   02 00.20
                 iPcS  05 34.10
                 eS    06 22.00
KMR    42.62 304 iP+   00 17.00   0.6
CEY    42.69 301 iPc   00 17.30   0.3
KHC    42.88 306 iPc   00 18.60   0.0
     1.0s   378.00nm          5.9mb
   Z  12s    81.00um          6.8MszX
   N  12s   169.00um
   E  14s   113.00um
                 e     03 12.00
                 e     05 53.50
                 iS    06 28.00
                 e     09 36.00
BRN    42.93 311 iPc   00 19.70   0.9
SGO    43.00 293 iPc   00 20.00   0.5
HFS    43.02 322 iP    00 19.40  -0.1
     0.7s  7060.00nm          7.3mb
CLL    43.10 309 iPc   00 20.10  -0.1
     2.5s  7800.00nm          6.8mb
                 ipP   01 11.00 241kmX
                 iS    06 29.40
                 isS   07 50.00
TRI    43.16 301 iPc   00 20.50  -0.2
                 ipP   01 04.80 206kmX
                 iPP   02 04.70
                 ipPPP 03 17.50
                 iS    06 30.40
                 isS   07 47.90
                 eSS   09 51.80
                 isSS  11 01.60
RBL    43.19 302 iPc   00 21.00  -0.1
WET    43.34 306 iPc   00 22.00  -0.2
                 eS    06 32.00
RCI    43.35 290 eP    00 23.50   1.1
COP    43.37 315 iPc   00 23.80   1.5
                 iS    06 30.00
DUI    43.39 295 iP    00 23.00   0.4
     1.6s  4100.00nm          6.7mb
MSI    43.39 290 iPc   00 23.50   0.8
BHG    43.49 304 iPc   00 23.50   0.0
KLM    43.69 132 ePd   00 21.50  -3.8X
     0.7s   117.00nm          5.5mb X
                 e     02 09.00
ALP    43.80 297 iPc   00 26.00   0.1
HOF    43.88 308 iPc   00 27.00   0.4
AQU    44.01 296 iPc   00 28.00   0.3
MOX    44.02 308 iPc   00 27.50  -0.2
     1.0s  2030.00nm          6.6mb
   Z  15s   163.00um          7.1MszX
   N  13s   175.00um
   E  13s   143.00um
                 i     01 01.00
                 ipP   01 20.00 249kmX
                 i     01 38.00
                 iPP   02 15.00
                 isPP  03 28.00
                 iS    06 44.00
                 isS   08 05.00
YAK    44.18  35 iPd   00 28.20  -0.5
     4.0s  *******nm          7.3mb X
   N  13s   132.00um
                 iPcP  02 12.20
                 iPPP  03 02.00
                 iS    06 44.00
POI    44.30 296 iPc   00 30.20   0.3
NB2    44.34 323 P     00 29.40  -0.7
     1.1s  3740.00nm          6.8mb
GRF    44.36 307 iPc   00 31.40   1.0
     1.9s  7150.00nm          6.8mb
   Z  20s   247.00um          7.1Msz
                 epP   01 24.70 253kmX
                 esP   01 42.50
                 ePP   02 17.00
                 eS    06 52.00
SCE    44.37 303 iPc   00 29.50  -1.2
FUR    44.50 305 iPc   00 31.90   0.4
     1.6s  6370.00nm          6.8mb
                 eS    05 47.00
MNS    44.53 296 iPc   00 31.20  -0.5
CTI    44.56 302 iPc   00 31.50  -0.6
ANP    44.57  90 iP+   00 36.00   3.6X
KHE    44.61 357 P     00 34.00   2.1
GIB    44.62 290 iPc   00 31.50  -1.2
     0.8s  3400.00nm          6.5mb
MDJ    44.63  60 iPc   00 32.80   0.3
                 sP    01 36.00
                 PcP   02 12.00
                 PP    02 24.00
                 iS    06 56.00
                 sS    08 07.00
RMP    44.64 295 iPc   00 34.40   1.8
                 iPP   02 27.40
                 iS    06 48.40
                 iSS   09 59.40
RDP    44.64 295 iPc   00 32.50  -0.2
GAP    44.74 304 iPc   00 32.70  -0.7
     0.8s  1030.00nm          6.3mb
OGA    44.86 303 iPc   00 33.80  -0.8
HAM    44.87 312 iPc   00 35.50   1.2
KONO   45.04 321 iP+   00 35.20  -0.3
MUD    45.21 317 iPc   00 37.00   0.1
FIR    45.25 299 iPc   00 38.00   0.6
                 iS    07 04.00
SAL    45.41 301 iPc   00 39.00   0.4
OSS    45.49 303 eP+   00 38.60  -0.9
KGM    45.56 131 iPc   00 41.40   1.3
     0.5s   934.00nm          6.5mb
                 i     00 56.00
                 e     07 07.00
ERC    45.69 290 iPc   00 39.00  -1.9
STU    45.79 306 iPc+  00 41.70   0.0
     1.0s  2100.00nm          6.5mb
   Z  20s    34.00um          6.3Msz
SAX    45.93 304 eP+   00 42.20  -0.9
TIK    45.94  22 iPc   00 43.00   0.5
     0.8s  1550.00nm          6.5mb
                 epP   01 32.00 228kmX
                 esP   01 55.00
                 ePP   02 34.00
                 ePPP  03 21.00
                 eS    07 08.00
                 esS   08 32.00
TNS    46.08 308 iPc   00 44.00   0.0
                 ePP   02 41.00
                 e     05 49.00
                 eS    07 15.20
                 eSS   10 14.00
LLS    46.23 303 eP+   00 44.30  -1.1
SLE    46.41 304 eP+   00 45.40  -1.2
BUH    46.44 306 eP    00 43.00  -3.9X
TMA    46.45 302 eP+   00 45.70  -1.5
ZUL    46.53 304 eP+   00 46.30  -1.3
VLA    46.57  62 iPc   00 47.50  -0.3
WIT    46.88 312 iPc   00 50.40   0.3
                 i     00 55.60
                 epP   01 38.00 220kmX
                 isP   02 06.20
                 iPPP  03 44.00
                 eSS   11 35.00
WTS    46.89 310 iPc   00 50.20   0.0
     0.9s   830.00nm          6.2mb
                 e     00 56.00
                 epP   01 37.00 216kmX
                 esP   02 07.00
                 eSS   11 37.00
ISI    47.10  89 Pc    00 51.60  -0.6
CDF    47.11 306 iPc   00 51.30  -0.8
     0.8s   700.00nm          6.1mb
ORO    47.16 302 e(P)  00 39.50 -13.1X
IZU    47.19  75 eP    00 53.00   0.2
                 e     07 35.00
BER    47.20 322 iP+   00 52.20  -0.3
CVF    47.23 297 iPc   00 52.00  -1.0
                 pP    01 37.80 210kmX
FKJ    47.37  77 ePc   00 55.00   0.9
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31d 00h

		e	09 04.00		
DIX	47.46	302	eP+	00 54.20	-0.8
BSF	47.53	305	iPc	00 54.70	-0.7
ENN	47.60	309	iPc	00 55.30	-0.4
	0.8s	422.00nm		5.9mb	
			i	01 01.00	
			epP	01 42.50	217kmX
HAU	47.79	305	iPc	00 56.80	-0.5
	1.0s	1500.00nm		6.4mb	
			pP	01 43.10	212kmX
MYK	47.79	88	eP	00 58.00	0.5
DBN	47.87	311	iPc	00 58.00	0.2
			isP	02 06.00	
			iPP	02 53.00	
			ePPP	03 54.00	
			iS	07 37.00	
			e	08 37.00	
			i	08 49.00	
			i	09 02.00	
			iScS	10 15.00	
			eSS	11 06.00	
			i	11 32.00	
NGS	48.17	76	Pc	01 01.00	0.7
			eS	09 10.00	
BAG	48.29	101	iPc+	01 02.00	0.4
			iS	07 27.00	
DOU	48.55	308	Pc	01 03.20	0.2
			pP	01 48.60	207kmX
			S	07 50.50	
			ScS	10 31.10	
CVP	48.56	98	ePd	01 04.00	0.5
			eS	01 17.00	
FRF	48.56	299	iPc	01 02.60	-0.6
UCC	48.58	309	iPc	01 03.00	-0.2
	4.0s	2740.00nm		6.0mb X	
KBS	48.67	347	iP+	01 04.60	1.0
LMR	48.71	299	iPc	01 03.60	-0.8
	1.0s	656.00nm		6.0mb	
LRG	48.79	299	iPc	01 04.30	-0.6
NAI	49.00	228	iPd	01 09.00	1.9
	1.8s	1770.00nm		6.2mb	
HMD	49.10	73	eP	01 07.00	-0.4
			e	09 23.00	
KAG	49.14	77	eP	01 08.00	0.2
OIT	49.35	75	Pc	01 10.50	1.2
			eS	08 15.00	
HIR	49.57	73	eP	01 09.00	-2.0
LBF	49.58	304	iPc	01 09.80	-1.2
LOR	49.59	305	iPc	01 10.00	-1.1
	0.9s	563.00nm		6.0mb	
			pP	01 56.80	213kmX
SAI	49.61	70	Pc	01 11.00	-0.3
NOB	49.64	76	Pc	01 11.20	-0.4
			eS	07 46.00	
OCP	49.69	102	eP	01 21.00	8.9X
MYZ	49.69	76	eP	01 12.00	0.0
SHK	49.70	73	iPc	01 11.80	-0.2
SMF	49.75	304	iPc	01 11.60	-0.6
TAJ	49.82	78	eP	01 12.00	-1.0
SSF	49.87	304	iPc	01 12.30	-0.9
AVF	50.04	304	iPc	01 13.60	-0.8
OKA	50.59	72	eP	01 19.00	0.2
			e	08 16.00	
MZF	50.69	304	iPc	01 19.10	-0.3
KOC	50.72	74	eP	01 20.00	0.3
TKM	50.84	73	eP	01 20.00	-0.6
			eS	09 39.00	
TCF	50.93	304	iPc	01 20.70	-0.5
			pP	02 07.30	210kmX
HIM	51.14	72	Pc	01 23.00	0.1
			eS	08 40.00	
MRT	51.33	74	P	01 25.00	0.6
			e	08 32.00	
TKS	51.33	73	iPc	01 25.10	0.8
CAF	51.38	302	iPc	01 24.10	-0.6
LSF	51.39	304	iPc	01 23.80	-0.9
KOB	51.56	72	Pc	01 26.50	0.4
			e	09 54.00	
RJF	51.65	303	iPc	01 26.20	-0.5
SET	51.72	291	iP	01 27.00	-0.4
WKY	51.72	72	iPc	01 28.00	0.7
			eS	08 33.10	
OSA	51.83	72	Pc	01 28.50	0.5
			eS	08 24.00	
KYO	51.87	71	Pc	01 28.50	0.2
			eS	08 33.00	
LDF	51.88	307	iPc	01 27.00	-1.3

			pP	02 13.90	211kmX
WAJ	51.90	68	ePc	01 28.00	-0.5
			e	10 00.00	
OSK	51.96	72	Pc	01 29.50	0.4
			eS	08 25.00	
LPO	52.05	302	iPc	01 29.00	-0.6
	0.6s	656.00nm		6.4mb	
FLN	52.07	307	iPc	01 28.30	-1.4
	1.2s	2890.00nm		6.8mb	
MVI	52.10	84	eP	01 31.00	0.8
HIK	52.16	71	eP	01 31.00	0.5
EKA	52.22	316	Pd	01 29.70	-1.0
	1.0s	1110.00nm		6.4mb	
LFF	52.29	302	iPc	01 30.70	-0.6
			pP	02 17.30	209kmX
GRR	52.41	307	iPc	01 30.80	-1.3
MFF	52.41	305	iPc	01 31.00	-1.2
SHJ	52.48	73	iPc	01 33.50	0.7
			e	08 46.00	
SUT	52.56	60	Pc	01 32.80	-0.5
			e	10 08.00	
LPF	52.62	307	iPc	01 32.10	-1.5
WAK	52.76	57	eP	01 35.00	0.3
			e	10 12.00	
YSS	53.00	55	iPc	01 36.00	-0.5
	1.2s	2430.00nm		6.7mb	
Z	16s	74.10um		6.8MszX	
N	16s	60.30um			
E	16s	82.10um			
			ePPP	04 53.00	
			iS	08 51.00	
			eSP	09 00.00	
EPF	53.13	300	iPc	01 35.60	-2.0
	0.6s	12.50nm		4.7mb X	
RMJ	53.17	58	Pc	01 38.30	0.6
MAT	53.18	68	iPc+	01 36.70	-1.3
			eS	08 50.00	
HAK	53.23	61	Pc	01 37.50	-0.7
			e	08 51.00	
SAP	53.24	60	Pc	01 38.00	-0.2
			S	08 55.50	
IID	53.28	70	Pc	01 38.50	-0.2
			e	02 35.00	
ABA	53.28	292	iP	01 37.00	-1.7
			iS	09 00.00	
NII	53.31	66	ePd	01 38.30	-0.6
ASA	53.73	59	Pc	01 41.50	-0.4
EBR	53.73	298	eP	01 42.00	0.0
			e	04 56.00	
			e	08 48.00	
			(S)	08 58.00	
CNP	53.75	102	ePc	01 43.50	1.1
			eS	02 11.20	
KOF	53.77	69	eP	01 41.00	-1.3
DDR	54.12	69	eP	01 42.60	-2.4
YAM	54.15	66	Pc	01 44.70	-0.3
HAC	54.20	63	iPc	01 44.50	-0.9
MRK	54.23	64	iPc	01 45.20	-0.4
			eS	09 09.00	
OYM	54.37	69	eP	01 42.00	-4.8X
AJI	54.41	70	ePd	01 46.00	-0.9
FKS	54.42	66	Pc	01 47.00	0.0
			eS	09 10.00	
UTS	54.42	68	Pc	01 46.00	-1.0
			e	09 08.00	
URA	54.54	68	eP	01 47.00	-0.8
SEN	54.55	65	Pc	01 47.50	-0.4
			eS	09 12.00	
DLE	54.62	314	iPc	01 46.90	-1.3
	1.2s	2400.00nm		6.7mb	
SEY	54.63	34	iPc	01 48.00	-0.2
	1.4s	1720.00nm		6.5mb	
			iPP	03 51.00	
			iS	09 10.00	
			isS	10 29.00	
			iSS	12 52.00	
TOK	54.66	69	P	01 46.10	-2.6
DMU	54.67	315	iPc	01 47.60	-1.0
	1.2s	2900.00nm		6.8mb	
YOK	54.68	69	ePc	01 49.00	0.1
TSK	54.72	68	eP	01 47.40	-1.8
OSH	54.73	70	P	01 49.00	-0.3
ISN	54.78	65	Pc	01 48.50	-1.1
			eS	09 14.00	
DAG	54.80	344	iPc	01 48.40	-0.8
	1.4s	2560.00nm		6.7mb	
			iS	09 14.00	

MIY	54.83	63	Pc	01 49.40	-0.5
OFU	54.86	64	Pc	01 49.50	-0.6
			eS	09 13.00	
MIT	54.93	68	eP	01 49.00	-1.7
			eS	09 13.00	
ABJ	54.96	58	P	01 50.70	-0.1
			eS	10 47.00	
KYS	55.14	69	eP	01 51.30	-0.9
LGR	55.29	300	iPc	01 53.20	-0.1
	1.7s	6.00nm		4.0mb X	
			i	02 44.00	
			iPcP	03 02.00	
			iS	09 16.50	
ALI	55.31	295	iP-	01 53.00	-0.4
			iS	09 18.50	
KUS	55.39	59	eP	01 53.00	-0.9
			e	08 48.00	
CHO	55.46	68	Pc	01 55.00	0.5
			S	09 30.60	
RLA	55.57	292	iP	01 56.00	0.7
NEM	56.09	58	Pc	01 57.10	-1.7
			eS	09 30.00	
CGP	56.21	106	ePc	02 01.50	1.4
	1.0s	899.00nm		6.4mb	
BKB	56.88	121	iPd	02 06.00	1.3
	1.5s	4920.00nm		7.0mb	
KUR	56.96	55	iP	02 04.00	-0.9
			ePcP	02 56.00	
			esP	03 18.00	
AKU	57.02	330	iP	02 05.90	0.9
	1.2s	4560.00nm		7.1mb	
VAL	57.17	313	iP	02 05.20	-1.1
			iS	09 36.00	
TOL	57.31	298	iPc	02 07.00	-0.5
	1.0s	250.00nm		5.9mb	
			i	02 19.00	
			i(pP)	02 57.00	222kmX
			i	03 23.00	
			iPP	04 12.00	
			iPPP	05 22.00	
			(PcS)	06 34.00	
			iS	09 44.00	
			(ScS)	11 36.00	
			iSS	13 04.00	
BNG	57.43	249	iPc	02 06.50	-2.1
	0.9s	15.00nm		4.7mb X	
DAV	57.74	106	iPc+	02 11.40	0.6
			eS	09 56.00	
CRT	58.04	295	iPc	02 11.00	-1.7
ALR	58.13	293	iP	02 12.50	-0.7
			i	02 15.00	
			i	02 25.00	
			i	03 05.00	
MAL	58.82	295	iPc	02 15.70	-2.3
			iS	10 04.50	
TRT	58.89	129	ePc	02 17.00	-1.7
	0.5s	539.00nm		6.5mb	
			e(S)	04 35.20	
REY	59.03	329	iPc	02 20.10	1.0
NPA	59.22	216	iP	02 22.00	1.1
			e	06 17.00	
			eS	10 10.00	
STS	59.29	303	iPnd	02 21.00	-0.1
			iSn	10 14.00	
PTO	60.02	301	iPc	02 25.30	-0.7
			iS	10 22.00	
SKR	60.18	47	iPc	02 25.00	-2.0
	1.8s	7100.00nm		7.1mb	
Z	18s	86.40um		6.9Msz	
N	18s	86.40um			
E	18s	43.20um			
			iSP	03 40.00	
			iS	10 18.00	
			iScS	11 50.00	
SFS	60.24	295	iPc	02 26.00	-1.6
			i	02 43.00	
			ipP	03 06.00	171kmX
			iPP	03 44.00	
			iPPP	05 50.00	
			iS	10 23.00	
			iSS	13 20.00	
IFR	60.72	292	iPc	02 30.50	-0.7
PET	60.75	44	iPc	02 28.00	-2.9
	1.2s	2600.00nm		6.8mb	
			ePP	04 46.00	
			iS	10 20.00	
			eScS	11 52.00	

31d 00h

			eSS	14	36.00	
MNI	60.80	112	eP	02	31.00	-0.7
	1.2s	2710.00nm				6.8mb
LIS	61.40	299	iPc	02	35.30	-0.1
AVE	62.52	292	iPc	02	41.60	-1.4
ILT	63.92	23	P	02	51.50	-0.1
MTD	64.55	222	iPd	02	56.00	-0.3
			iS	11	12.00	
KRI	65.67	224	iPd	03	03.00	-0.6
			iS	11	29.00	
AAI	66.70	114	iPc	03	08.70	-1.3
GDH	67.04	341	iPc	03	11.10	-0.4
	2.0s	1480.00nm				6.4mb
			iS	11	48.00	
MBC	67.45	3	iPc	03	14.30	0.4
BUL	68.91	223	iPd-	03	23.50	-0.2
	0.7s	959.00nm				6.6mb
			iS	12	04.90	
SMY	69.17	39	ePd	03	23.00	-0.9
GUMO	69.35	88	eP	03	24.00	-2.4
	1.5s	4770.00nm				7.0mb
GUA	69.41	88	eP	03	24.50	-2.4
	1.5s	3670.00nm				6.9mb
Z	20s	51.80um				6.8Msz
TEN	71.50	292	iPc	03	37.50	-1.7
			iPP	06	15.20	
			iS	12	41.40	
NAU	72.27	137	iPc	03	43.80	0.2
IMA	72.28	17	iPc	03	43.00	-0.4
SLR	73.64	219	iPc	03	52.10	0.3
	1.8s	5730.00nm				7.0mb
MBL	73.66	133	iPd	03	51.80	0.0
EVA	73.87	218	iPc	03	53.70	0.6
INK	74.06	9	iPc	03	53.60	0.2
	0.9s	750.00nm				6.4mb
BPI	74.13	219	iPc	03	54.50	-0.1
TTA	74.19	20	iPc	03	54.70	0.3
ADK	74.23	36	ePd	03	51.90	-2.8
KSR	74.46	220	iPc	03	56.30	-0.3
KIC	74.58	267	iPc	03	56.00	-1.3
			e	13	06.30	
COL	74.62	16	iPc	03	56.70	-0.1
			PP	06	57.00	
FBA	74.62	16	iPc	03	56.90	0.1
MTN	75.02	119	iPc	03	58.50	-1.2
PRY	75.03	219	eP	03	59.00	-0.7
FRB	75.10	343	iPc	03	59.00	-0.5
BFS	75.36	220	iPc	04	00.00	-1.6
KNA	75.39	122	iPd	04	01.80	0.0
	0.5s	710.00nm				6.7mb
JAY	75.49	104	iPc	04	02.00	-0.5
SVW	75.75	21	ePc	04	03.90	0.6
SEK	76.09	218	iPc	04	06.40	0.7
VIR	76.28	219	eP	04	07.00	0.3
SWZ	76.35	221	iPc	04	08.00	0.9
NKI	77.10	32	ePd	04	08.70	-2.0
PMR	77.13	18	iPc	04	10.50	-0.3
MEK	77.17	137	iPc	04	11.10	-0.4
TOA	77.41	17	ePc	04	13.20	0.8
BLF	77.46	219	iPc	04	13.00	-0.2
WWW	78.45	103	ePc	04	20.50	1.7
SDN	78.68	27	P	04	18.30	-1.0
BAL	79.38	141	iPc	04	22.20	-1.2
KDC	79.43	22	iPc	04	23.70	0.4
MUN	80.23	142	iPc	04	27.00	-0.9
MOM	80.49	100	iPc	04	30.50	0.9
PCA	80.52	15	ePc	04	30.10	0.9
GRM	80.70	216	iPc	04	28.50	-1.8
Z	20s	25.50um				6.6Msz
KLB	80.70	141	iPc	04	29.50	-0.9
	0.8s	606.00nm				6.4mb
MDG	81.15	103	ePc	04	33.00	0.0
YKA	81.36	3	eP	04	34.60	1.3
RSNT	81.37	3	eP	04	33.60	0.2
WBN	81.46	131	iPc	04	34.50	0.1
NWAO	81.51	142	iPc	04	33.70	-0.8
KLG	82.02	138	iPc	04	36.70	-0.5
WRA	82.11	122	Pc	04	38.10	0.2
	0.9s	285.00nm				6.0mb
SCH	82.11	337	ePc	04	37.50	0.0
	1.2s	1930.00nm				6.7mb
WB2	82.12	122	iPc	04	38.40	0.4
			i	14	32.50	
			eSKKS	34	11.20	
STJ	82.34	325	eP	04	38.50	-0.2
	1.8s	999.00nm				6.2mb
SUR	82.85	221	iPc	04	43.20	1.5
LAT	82.96	104	iPc	04	43.00	0.6
KVG	83.51	98	iPc	04	45.50	0.3
SIT	84.33	14	ePc	04	49.90	1.3
FCC	84.36	352	iPc	04	49.40	0.7
ASPA	84.36	125	iPc	04	49.00	-0.3
PMG	84.77	106	ePc	04	50.00	-1.4
LMG	85.24	105	eP	04	53.00	-1.0
ISO	86.25	119	iPc	04	58.00	-0.7
FFC	89.03	356	iPc	05	11.30	-0.2
CTA	90.68	114	iPc+	05	19.00	-0.5
			i	06	11.00	
			i	08	54.00	
			iS	15	20.00	
EDM	90.68	2	ePc	05	19.70	0.5
			pP	06	17.00	234kmX
PHC	91.80	11	ePc	05	25.00	0.7
	1.1s	1570.00nm				7.0mb
RSON	92.05	350	iPc	05	25.30	-0.2
	1.8s	1740.00nm				6.8mb
			pP	06	20.00	222kmX
BNH	92.35	334	iP	05	27.90	0.9
MNT	92.36	336	eP	05	27.50	0.5
	1.6s	540.00nm				6.4mb
OTT	93.14	337	ePc	05	31.50	0.9
	1.0s	303.00nm				6.4mb
RSNY	93.51	336	eP	05	32.70	0.3
	1.8s	1080.00nm				6.7mb
			pP	06	27.60	223kmX
SES	93.57	1	iPc	05	32.50	-0.1
LHC	93.70	347	iPc	05	33.00	-0.2
	1.1s	738.00nm				6.7mb
PNT	94.17	7	iPc	05	35.80	0.5
PGC	94.39	9	ePc	05	37.00	0.7
	1.5s	207.00nm				6.1mb
VSG	94.58	98	P	05	36.00	-1.7
SVO	94.61	98	P	05	37.00	-0.7
HNR	94.88	98	eP+	05	38.00	-1.0
			e(S)	16	34.00	
STK	94.89	126	iPc	05	37.50	-1.2
ADE	95.07	130	iPc	05	39.00	-0.5
	0.9s	269.00nm				6.5mb
NEW	95.42	5	iPc	05	42.20	1.0
Z	20s	60.00um				7.1Msz
			e	06	38.00	
ELF	96.80	340	P	05	47.50	0.1
LDN	96.91	340	P	05	47.75	-0.1
CMS	97.44	124	iPc	05	48.90	-1.3
BUT	97.91	2	iPc	05	53.40	0.8
LRM	98.11	2	iPc	05	53.90	0.3
UTO	98.84	341	iPc	05	58.00	1.4
BFD	98.86	130	eP	05	55.00	-1.5
RSSD	99.72	356	eP	05	59.30	-1.6
HPI	100.19	3	ePdiff06	04	20	1.3
YOU	100.84	125	ePdiff06	04	10	-1.5
TOO	100.95	129	ePdiff06	05	00	-1.1
BDW	101.20	0	iPdiff06	07	80	0.5
	1.8s	480.00nm				6.7mb
CAN	101.87	125	ePdiff06	09	10	-1.1
			i	10	24.70	
FHC	101.99	11	ePdiff06	11	40	0.8
BLA	102.04	337	iPdiff06	11	10	0.2
	1.0s	80.00nm				6.3mb
WAM	102.30	126	ePdiff06	12	10	0.1
WDC	102.43	10	ePdiff06	12	20	-0.3
			ePP	10	28.00	
			ePKKP	22	18.00	
			e	23	32.00	
RIV	102.44	123	ePdiff06	11	00	-1.7
MIN	102.79	10	ePdiff06	14	30	0.0
MAW	103.85	183	ePdiff06	19	00	0.9
	1.1s	136.00nm				6.7mb
			eS	10	34.00	
FVM	103.97	345	ePdiff06	20	00	0.6
	1.2s	131.00nm				6.7mb
Z	19s	44.40um				7.0Msz
GLD	104.14	357	ePdiff06	20	40	0.0
	1.9s	1010.00nm				7.4mb
Z	21s	104.00um				7.3Msz
GOL	104.19	357	ePdiff06	21	60	0.9
	2.1s	446.00nm				7.0mb
EUR	104.24	5	iPdiff06	22	20	1.3
	0.3s	92.70nm				7.2mb
RSCP	105.06	340	e(Pdi06	19	30	-5.1X
	0.6s	27.10nm				6.5mb
MNA	105.09	7	ePdiff06	26	00	1.4
BKS	105.13	11	ePdiff06	26	00	1.5
	1.8s	320.00nm				7.1mb
			epP	07	26.00	
BKS	105.13	11	ePKP	10	22.00	-16.0X
			i	10	44.00	
			ePP	10	59.00	
			epP	11	45.00	
			esPP	12	02.00	
			epPPP	14	11.00	
			e	15	09.00	
			iSKS	16	47.00	
			iSKKS	17	25.00	
			iS	18	25.00	
			ePS	19	30.00	
			esS	20	09.00	
			eSPP	20	54.00	
			esPS	21	17.00	
			e	23	30.00	
			eSS	26	47.00	
			e	27	46.00	
			e	29	55.00	
			e	33	11.00	
			e	34	42.00	
			e	36	00.00	
			e	36	40.00	
JAS	105.31	9	ePdiff06	26	00	0.6
			epP	07	26.00	
			ePP	10	45.00	
			epPP	11	45.00	
			ePKKP	22	04.00	
MHC	105.74	10	ePdiff06	28	20	0.8
SAO	106.33	10	ePdiff06	29	60	-0.3
FRI	106.34	9	ePdiff06	30	40	0.5
RMU	106.88	1	ePdiff06	33	60	1.0
PRI	107.05	10	ePdiff06	34	60	1.3
			ePKKP	22	00.00	
CWC	107.07	7	ePdiff06	34	00	0.6
NOL	107.29	105	iPdiff06	35	00	0.5
NOU	107.29	105	iPKPc	10	44.00	1.5
SYO	107.61	191	ePdiff06	37	60	2.8X
CLC	107.74	7	ePdiff06	38	00	1.7
CLC	107.74	7	ePKP	10	36.00	-7.1X
			e	11	13.00	
ISA	107.80	8	ePdiff06	37	00	0.5
ISA	107.80	8	ePKP	10	51.00	7.8X
CAI	108.24	275	ePdiff06	40	20	1.3
GSC	108.32	7	ePdiff06	41	00	2.1
GSC	108.32	7	ePKP	10	54.00	9.7X
SBB	108.83	7	ePdiff06	43	00	1.8
ALQ	108.98	358	iPdiff06	43	20	1.2
	1.9s	263.00nm				7.1mb
Z	18s	82.50um				7.3Msz
			e	07	04.00	
MWC	109.26	8	ePdiff06	44	00	0.7
MWC	109.26	8	ePKP	10	29.00	-17.2X
			e	10	55.00	
			e	11	22.00	
PAS	109.33	8	iPdiff06	45	00	1.7
	1.2s	100.00nm				
			e	11	10.00	
			e	13	25.00	
			e	21	54.00	
			eS	25	55.00	
PLM	110.25	7	ePdiff06	45	00	-2.6X
PLM	110.25	7	ePKP	10	49.00	0.9
			e	11	06.00	
			e	12	05.00	
GLA	110.72	5	ePdiff06	51	00	1.5
			e	07	39.00	
GLA	110.72	5	ePKP	10	50.00	1.2
			e	11	28.00	
BAR	110.93	7	ePdiff06	46	00	-4.5X
FDF	111.84	309	ePdiff06	56	00	1.1
SJG	112.20	315	ePdiff06	58	00	1.6
Z	20s	9.93um				6.4Msz
			iS	11	40.00	
JCT	112.89	351	ePdiff07	00	00	0.8
	2.0s	147.00nm				
Z	20s	99.30um				7.4Msz
NDF	113.58	95	ePKP	10	54.00	-0.6
			eS	11	48.00	
VUN	114.53	95	iPKPd	10	56.40	-0.1
			eS	11	55.40	
SVA	114.58	95	ePKP	10	55.00	-1.5
NVL	114.79	198	ePdiff07	10	00	3.3X
			iPP	12	04.00	
DRV	115.34	156	iPKP	10	56.00	-0.5
CRZ	118.06	114	PKP	11	02.80	0.1
ATB	118.17	288	iPdiff07	30	50	7.5X

GUV	118.30	306	iPKP	11	03.70	-0.1
CAR	118.66	311	iPdiff	07	26.00	0.7
CAR	118.66	311	iPKP	11	04.40	-0.2
MSZ	119.06	126	PKP	11	03.10	-1.2
			(pP)	11	54.10	
			PP	12	21.00	
			e	14	20.70	
TOV	120.95	313	iPKPd	11	09.00	0.1
	1.3s	500.00nm				
LGN	121.52	315	iPKP	11	12.00	2.2
KRP	121.63	116	PKP	11	08.00	-1.7
			pPcP	12	08.00	
			PP	12	33.00	
			SKKS	19	21.00	
TCW	122.01	120	PKP	11	08.20	-1.8
			epPcP	12	10.60	
BAO	122.14	274	iPKP	11	11.10	0.0
SDV	122.16	313	iPKPc	11	09.70	-1.6
	0.6s	44.40nm				
SNZO	122.35	120	iPKP	11	09.00	-1.6
	1.0s	680.00nm				
			e	11	59.00	
UAV	122.68	314	ePKP	11	04.20	-8.1X
	0.8s	34.10nm				
BMA	122.71	265	ePKP	11	12.10	0.1
			e	11	24.70	
			e	12	47.90	
			e	12	56.30	
LJX	123.21	346	ePKP	11	14.20	0.7
GNZ	123.71	116	iPKPd	11	13.10	-0.3
CRX	123.77	349	ePKP	11	15.30	0.8
VAO	125.12	266	ePKP	11	04.70	-12.0X
			i	11	17.00	
			i	11	24.40	
VHO	125.36	345	iPKP	11	19.00	1.5
SPA	126.21	180	ePKP	11	17.90	0.3
	1.9s	2050.00nm				
	Z 19s	56.00um				7.3Msz
ACX	126.29	349	ePKPc	11	20.40	1.4
BOCO	127.61	313	ePKP	11	11.00	-11.2X
BOCO	127.61	313	iPKP	11	23.00	0.8
ITB	131.80	268	e(PKP)	11	29.40	0.1
ITB1	131.88	268	ePKP	11	27.40	-2.0
ITB7	131.93	267	e(PKP)	11	26.40	-3.2X
PSO	132.26	314	ePKP	11	12.00	-19.0X
RAR	133.72	85	PKP	11	34.00	1.0
			S	14	43.00	
ZOBO	138.44	288	iPKP	11	42.00	-0.8
LPA	138.68	256	ePKP+	11	25.00	-17.0X
	0.8s	716.00nm				
	Z 20s	25.50um				7.0Msz
PMO	139.54	68	ePKP	11	37.00	-7.0X
	1.3s	915.00nm				
YJA	139.64	278	ePKPd	11	35.80	-8.9X
AFR	139.64	73	ePKP	11	36.00	-8.2X
	1.3s	1030.00nm				
TPT	139.74	68	ePKP	11	38.00	-6.4X
	1.3s	570.00nm				
PPT	139.82	73	ePKP	11	37.00	-7.5X
	1.3s	1030.00nm				
PAE	139.87	73	ePKP	11	38.00	-6.6X
	1.3s	570.00nm				
VAH	139.89	68	ePKP	11	39.00	-5.6X
	1.3s	570.00nm				
PPN	139.91	73	iPKP	11	37.30	-7.3X
	1.3s	570.00nm				
RUV	140.04	68	ePKP	11	40.00	-4.9X
	1.3s	570.00nm				
TVO	140.19	73	iPKP	11	38.60	-6.7X
	1.0s	1610.00nm				
SLA	140.87	275	ePKP	11	37.00	-9.5X
			PP	14	48.00	
			SS	26	52.00	
ARE	141.12	291	iPKPd	11	40.00	-7.3X
VBA	142.64	253	iPKPc	11	45.00	-4.0X
CYA	142.72	270	ePKPc	11	43.00	-6.4X
TBI	143.04	81	ePKP	11	47.50	-2.5
	1.2s	3330.00nm				
ANT	144.32	280	iPKP	11	49.50	-2.7X
VCA	144.78	271	iPKPc	11	52.00	-1.1
CEN	146.26	266	ePKP	11	56.00	0.6
MDZ	146.75	264	ePKP	11	56.90	0.8
RFA	146.96	261	ePKPc	11	57.00	0.6
			S	12	15.00	
FCH	148.03	264	iPKPc	11	59.00	0.5
BACH	148.20	264	iPKP	11	59.30	0.9
			i	13	02 [illegible]	

PCH	148.29	263	iPKPd	11	58.50	-0.1
PEL	148.30	264	iPKPc+	11	58.00	-0.6
CHCH	148.49	263	iPKP	11	59.00	0.2
TACH	148.64	264	iPKP	11	59.00	0.0
LNV	149.10	263	iPKPc	12	00.20	0.5
RKT	154.14	66	ePKP	12	08.40	1.1
	1.3s	1500.00nm				
	S.D. = 1.1 on 536 of 580 obs.					

JAN 01, 1984 09h 03m 37.48± 0.09s
33.697 N ± 1.6km 136.843 E ± 1.5km
DEPTH = 379.7 ± 0.8 km
5.3mb (15 obs.)
NEAR S. COAST OF SOUTHERN HONSHU(233)

Foreshock. This event was not included on the original IASPEI list, but is listed here as an aid to interpreting the main event which follows. The magnitude shown for this event may be high but the event can be seen clearly on stations in the United States as far away as 90 degrees.

TK01	0.63	84	P	04	25.60	0.3
OWA	0.65	305	iP	04	25.70	-0.1
TK02	0.80	72	P	04	26.50	0.6
SHJ	0.93	255	iP	04	26.20	-0.4
TSU	1.04	345	eP	04	27.00	0.1
TK03	1.04	63	eP	04	28.00	1.2
TK04	1.10	51	eP	04	28.00	1.0
WKYJ	1.16	297	iP	04	27.70	0.2
HMM	1.25	36	P	04	29.00	1.3
NAR	1.29	320	iP	04	28.50	0.6
OSK	1.34	313	iP	04	28.50	0.3
OMA	1.45	51	eP	04	30.00	1.3
NAG	1.47	4	eP	04	30.00	1.3
			eS	05	10.00	
OSA	1.47	312	iP	04	29.20	0.5
			S	05	08.60	
WKY	1.49	291	P	04	29.00	0.1
KYO	1.60	325	P	04	29.00	-0.4
HIK	1.65	343	P	04	30.20	0.5
KOB	1.70	306	eP	04	30.00	0.0
GIF	1.70	358	P	04	30.40	0.4
SUM	1.73	292	iP	04	30.20	0.0
SHZ	1.82	45	P	04	30.90	0.2
TKS	1.92	282	iP	04	31.90	0.6
TSRJ	1.97	339	iP	04	32.10	0.4
IID	1.99	24	P	04	33.50	1.7
IIDJ	1.99	26	iP	04	31.80	-0.1
HIM	2.11	303	eP	04	33.00	0.4
MZH	2.15	325	P	04	32.90	0.0
MIS	2.23	50	eP	04	34.00	0.6
KTJ	2.24	56	iP	04	33.20	-0.3
MRT	2.27	259	iP	04	33.80	0.1
AJI	2.30	54	P	04	33.50	-0.4
TKSJ	2.34	278	iP	04	34.60	0.3
OSH	2.35	62	P	04	35.10	0.8
TKM	2.39	286	eP	04	35.00	0.4
FUN	2.40	41	eP	04	35.00	0.2
FUK	2.41	348	eP	04	35.00	0.3
KOF	2.42	35	eP	04	33.80	-1.8
TKY	2.47	8	P	04	35.40	0.1
TYK	2.48	318	P	04	35.70	0.5
HJJ	2.53	103	P	04	35.30	-0.4
OKA	2.62	293	eP	04	36.50	0.2
			iS	05	27.60	
OYM	2.62	48	iPd	04	35.80	-0.7
KOC	2.76	268	iP	04	38.10	0.6
SRY	2.77	46	iPd	04	38.60	1.1
TOTJ	2.77	311	iP	04	37.50	0.0
TAT	2.81	62	P	04	36.90	-1.0
TOT	2.85	310	eP	04	38.00	-0.2
KAN	2.85	357	P	04	39.20	1.0
YOK	2.90	52	iP	04	39.70	1.1
MTMJ	2.99	15	iP	04	39.60	0.1
DDR	3.00	39	iPd	04	38.80	-0.8
MAT	3.05	21	iP	04	40.00	0.0
KYS	3.12	60	eP	04	37.10	-3.4X
TOK	3.12	50	P	04	40.00	-0.5
			S	05	29.40	
NGN	3.16	20	eP	04	41.50	0.6
YONJ	3.16	299	iP	04	41.20	0.3
KMG	3.22	40	P	04	40.60	-0.7
MAE	3.26	33	P	04	41.10	-0.6

ASZ	3.35	254	P	04	42.70	0.1
			iS	05	33.50	
MTY	3.39	274	eP	04	43.00	0.1
SHK	3.55	285	iPc	04	44.40	-0.1
MTS	3.57	300	iP	04	44.90	0.3
TKD	3.59	18	eP	04	45.00	0.3
UWA	3.61	264	iP	04	45.20	0.2
TSK	3.67	46	iPd	04	42.60	-3.0
WAJ	3.69	1	P	04	46.40	0.8
KAKJ	3.71	47	iP	04	43.50	-2.4
HIR	3.72	282	iP	04	45.90	-0.1
UTS	3.77	40	eP	04	46.00	-0.5
			S	05	41.00	
SAI	3.82	312	eP	04	47.00	0.1
CHO	3.87	57	P	04	47.60	0.2
			iS	05	43.80	
NIIJ	3.95	26	eP	04	47.00	-1.2
MIT	4.00	47	P	04	48.70	0.0
			iS	05	45.60	
HMD	4.12	288	P	04	50.10	0.2
OIT	4.39	265	P	04	53.50	0.9
SHR	4.39	38	iP	04	51.20	-1.5
AIK	4.46	14	P	04	52.90	-0.4
NOB	4.47	257	P	04	53.90	0.5
NII	4.57	22	P	04	55.30	0.8
SHNJ	4.79	277	P	04	57.00	0.3
MYZ	4.89	250	eP	05	00.00	2.2
			S	06	05.70	
ASJ	4.90	262	P	04	58.80	0.7
SHN	4.92	275	P	04	58.50	0.4
YAMJ	5.16	29	iP	04	59.50	-1.2
YAM	5.36	31	P	05	01.60	-1.3
KAGJ	5.62	245	P	05	06.60	0.9
SKH	5.74	25	P	05	06.90	-0.1
NGS	5.92	263	Pd	05	00.00	-9.0X
NGS	5.92	263	P	05	10.30	1.3
ISN	5.94	36	P	05	07.30	-1.9
HJH	6.24	25	P	05	11.80	-0.7
AKI	6.55	23	P	05	16.20	0.1
OFUJ	6.63	35	iP	05	15.00	-2.0
OFU	6.64	35	P	05	15.00	-2.1
MRK	6.92	29	P	05	18.50	-1.8
MIY	7.22	33	P	05	21.70	-2.1
AOMJ	7.41	21	P	05	25.80	-0.1
HAC	7.77	27	eP	05	28.00	-2.1
CBI	8.03	144	P	05	29.00	-4.2X
HAK	8.67	20	P	05	40.90	0.3
MRRJ	9.33	20	P	05	47.80	-0.5
SUT	9.46	15	P	05	50.00	0.1
URA	9.66	27	eP	05	53.00	0.8
SAP	9.99	19	eP	05	58.00	1.9
HOOJ	10.05	28	P	05	55.90	-0.9
VLA	10.18	339	iPd	05	58.50	0.2
OBI	10.48	27	P	06	03.00	1.0
RMJ	10.90	19	eP	06	08.00	1.1
ASA	10.94	22	P	06	08.10	0.6
KUS	11.00	30	P	06	06.90	-1.2
KUSJ	11.23	31	eP	06	10.00	-0.9
ASAJ	11.34	22	eP	06	11.00	-1.2
KMJ	11.37	232	iP	06	14.00	1.3
			iS	08	23.00	
NEM	11.80	33	eP	06	17.00	-0.6
ABJ	11.82	27	P	06	18.70	0.8
MDJ	12.26	335	iPc	06	23.50	0.4
			S	08	32.00	
			ScP	14	32.00	
			ScS	18	06.00	
WAK	12.28	16	P	06	24.70	1.4
SNY	13.26	312	Pd	06	34.70	0.4
			iS	08	58.00	
DL2	13.32	297	eP	06	33.60	-1.4
			S	08	55.00	
MYK	13.43	232	iP	06	37.20	1.0
			eS	08	59.00	
CN2	13.43	322	Pc	06	36.80	0.6
			ScP	14	33.20	
			ScS	18	08.50	
SSE	13.48	263	iPd-	06	36.00	-0.7
	N 12s	47.40um				
	E 12s	102.50um				
			sP	07	39.00	
			i	08	24.00	
			iS	09	05.00	
YSS	14.03	17	iPc	06	41.00	-1.6
	1.1s	410.00nm				5.8mb
	Z 17s	81.00um				6.5MszX
	N 18s	106.00um				

TABLE 4-188

01d 09h

```
     E  17s    59.00um
                iS    09 07.00
KUR    14.31  33 eP    06 46.10   0.6
       0.8s  *******nm          7.3mb X
                iS    09 25.00
ISI    14.48 233 iP    06 47.30  -0.2
                iS    09 21.50
NJ2    15.21 269 Pc    06 53.70  -1.5
                S     09 34.00
                ScP   14 36.70
                ScS   18 17.50
ANP    15.80 242 iP-   07 03.00   1.4
                eS    09 48.00
UGL    15.86  13 iPc   07 03.10   1.1
TIA    16.36 284 Pd    07 05.70  -1.6
                sP    08 35.00
                S     09 57.00
                ScP   14 38.80
                ScS   18 19.30
BJI    17.69 297 Pc    07 19.50  -1.2
                i     08 31.00
                sP    08 59.00
                eS    10 26.00
                ScS   18 22.50
QZH    18.13 246 iPd   07 25.60   0.5
                iS    10 20.00
WHN    19.30 267 Pd    07 37.00   0.3
TIY    20.21 288 P     07 43.80  -1.7
CVP    20.86 221 ePc   07 52.00   0.2
                eS    08 59.00
HHC    21.10 297 eP    07 55.80  -0.3
GUMO   21.[illegible] 158 eP    07 58.00   1.8
GUA    21.37 158 eP    07 58.00   1.2
       1.0s   320.00nm          5.7mb
                eS    11 26.00
SZP    21.79 226 iPc   07 59.00  -1.7
BTO    22.41 296 P     08 07.00   0.4
                S     11 46.00
BAG    22.60 224 iPd-  08 06.00  -2.6
                iS    11 36.00
XAN    23.16 279 P     08 12.00  -1.5
                S     11 51.00
GZH    23.17 249 Pc    08 12.50  -1.0
                iS    11 56.00
MAN    23.73 221 eP    08 20.00   1.3
                eS    12 11.00
TUP    23.92 335 iPd   08 19.00  -1.1
       0.8s  1080.00nm          6.3mb X
                eS    12 04.00
PGP    24.76 219 ePd   08 08.50 -19.5X
       1.0s  1408.00nm
PET    24.81  32 eP    08 28.00  -0.2
       1.0s  1200.00nm          6.2mb X
     Z  16s    45.00um          6.1MszX
     N  13s    41.00um
     E  13s    28.00um
                eS    12 28.00
CCP    26.11 210 iPd   08 41.00   0.7
                eS    09 55.50
GYA    27.03 263 P     08 47.00  -1.6
                S     12 56.00
LZH    27.10 284 iPd   08 44.00  -5.2X
       7.0s  *******nm          6.7mb X
     N  12s    59.30um
     E  12s    13.60um
                pP    08 59.00  62kmX
                iPcP  12 25.00
                iS    12 54.00
                isS   13 19.00
CGP    27.51 207 iPc   08 52.50  -0.2
MGD    27.96  15 iPc   08 56.00  -0.3
     Z  15s    82.00um          6.4MszX
     N  15s   100.00um
     E  15[illegible]   60.00um
                esP   10 50.00
                iS    13 16.00
                eScS  18 53.00
CD2    28.04 273 P     08 56.60  -0.7
                PcP   11 58.50
                iS    13 13.00
DAV    28.46 284 iPd-  09 01.00  -0.1
                iS    13 21.00
YAK    28.70 353 iPd   09 02.00  -0.8
       0.8s  2430.00nm          6.6mb X
                iS    13 26.00
PPR    29.05 219 ePc   08 59.90  -6.3X
                iS    09 40.70
ZAK    29.66 314 eP    09 12.70   1.5
       1.8s  2710.00nm          6.3mb X
     Z  14s    49.10um          6.3MszX
     N  14s    24.70um
     E  14s    53.70um
                epP   10 24.00 387kmX
                iS    13 45.70
                esS   15 54.00
IRK    29.82 318 ePc   09 14.00   1.3
       1.9s  1540.00nm          6.0mb X
     Z  16s    62.80um          6.3MszX
     N  16s    47.90um
     E  16s    36.50um
                epP   10 24.00 378kmX
                ePcP  12 05.60
                eS    13 46.00
                esS   15 46.00
GTA    30.14 292 P     09 13.00  -2.7
                PP    10 29.50
                S     13 47.00
                ScP   15 16.60
                ScS   19 12.50
KMI    30.80 263 Pd    09 19.00  -2.7
SEY    30.83  14 eP    09 20.60  -0.7
       1.1s  1150.00nm          6.1mb X
     N  16s    87.00um
     E  16s    61.00um
                ipP   10 34.60 401kmX
                iPcP  12 14.60
                iS    14 02.60
                isS   16 05.00
MOY    31.48 316 eP    09 27.30   0.3
       1.5s  1420.00nm          6.1mb X
KKM    33.52 219 ePd   09 45.80   1.0
       1.0s   268.70nm          5.5mb
                e     09 57.90
                e     10 09.80
MNI    34.00 202 ePd   09 49.50   0.8
                eS    10 35.00
UER    35.56 313 ePd   10 02.00   0.5
       1.5s  1070.00nm          6.0mb X
                iS    15 19.00
CHG    36.85 256 iPd   10 12.00  -0.7
       1.1s    31.65nm          4.6mb
                eS    15 44.00
PCT    37.20 248 eP    10 14.30  -1.2
                e     15 39.80
BDT    37.64 254 eP    10 18.40  -0.7
ADK    37.89  47 eP    10 19.00  -1.8
                i     10 21.00
AAI    38.07 194 ePd   10 07.30 -15.3X
                iS    11 21.20
TIK    38.24 356 eP    10 23.50   0.1
       0.9s  1350.00nm          6.3mb X
     Z  19s     4.00um          5.3MszX
     N  18s    10.00um
     E  18s     3.00um
                epP   11 35.00 366kmX
                ePP   12 06.00
                ePcP  12 25.00
                eS    15 52.00
                esS   17 58.00
KVG    38.40 157 e[illegible]   10 26.00   0.7
WMQ    39.13 300 iPd   10 32.50   1.3
BKB    39.56 212 ePc   10 28.00  -6.9X
       1.1s  6888.10nm          6.9mb X
NNT    39.76 247 eP    10 36.70   0.2
ELT    40.58 314 iPc   10 42.20  -0.6
                iS    16 27.00
NVS    42.53 317 iPc   10 58.00  -0.5
       1.2s  2760.00nm          6.4mb X
                iS    16 54.00
ILT    42.58  23 iPc   10 57.00  -1.7
       2.0s  *******nm          7.0mb X
                ipP   12 14.00 393kmX
                iPcP  12 44.00
                ePP   12 47.00
                iS    16 55.00
                eScS  20 18.00
SNG    42.62 240 iPc   11 01.00   1.3
       0.9s   521.0[illegible]nm          5.8mb
                iS    16 56.80
NKI    42.77  46 eP    10 59.50  -1.0
PMG    43.97 165 eP    11 08.50  -1.8
SEM    44.10 310 eP    11 11.40   0.4
       2.1s  5050.00nm          6.4mb X
                ePcP  12 50.50
                ePP   13 06.40
                isP   13 08.20
                iS    17 15.90
                iScS  20 25.80
IPM    44.13 237 ePc   11 10.40  -1.3
                e     11 14.00
                i     11 36.10
                e     11 47.90
                i     12 23.10
PKI    44.31 276 eP    11 12.00  -1.4
KKN    44.33 277 eP    11 12.50  -0.9
KGM    44.45 232 ePc   11 15.00   0.9
       0.7s   552.10nm          6.0mb X
                e     14 53.00
DMN    44.54 277 eP    11 14.00  -1.1
NRI    44.68 338 iPc   11 15.30   0.0
       5.0s  *******nm          6.5mb X
     Z  14s    46.00um          6.6MszX
     N  18s   112.00um
     E  18s    30.00um
                ePP   13 14.00
                iS    17 19.00
                esS   19 34.00
                eSS   20 52.00
KUPT   45.39 198 ePd   11 22.70   1.3
       0.6s   703.40nm          6.1mb X
                eS    17 22.70
MTN    46.60 188 eP    11 28.00  -2.8
PSI    46.94 237 iPc   11 32.30  -1.2
       0.8s   290.10nm          5.6mb
TRT    47.15 214 iPc   11 35.20   0.1
       0.5s   315.20nm          5.9mb X
                e(S)  14 21.20
SDN    47.78  43 P     11 38.60  -0.9
SVO    47.88 149 eP    11 42.00   1.4
                eS    18 12.00
VSG    47.93 149 eP    11 42.00   1.0
                eS    18 10.00
HNR    48.19 149 eP    11 45.00   2.0
       1.0s   480.00nm          5.7mb
                eS    18 14.00
                eLQ   20 22.00
PPI    48.22 233 eP    11 43.50   0.2
       1.0s   599.40nm          5.8mb
                eS    18 20.00
KNA    49.77 190 eP    11 53.00  -1.9
TTA    50.27  33 eP    11 57.70  -0.6
                i     11 59.10
SVW    50.40  36 P     11 59.50   0.2
NDI    50.65 281 iPd   12 02.00   0.4
       1.2s  1796.88nm          6.3mb X
     Z  21s    34.95um          6.4Msz
     N  21s    33.69um
     E  21s    40.86um
                iPP   13 12.00
                iPPP  14 00.00
                iPcS  18 37.00
                iS    18 47.00
ANR    50.81 298 eP    12 03.50   0.9
       1.3s  3000.00nm          6.5mb X
                ePP   14 07.50
                iS    18 54.20
                iScS  21 14.20
BRW    50.93  22 eP    12 02.50  -0.5
                i     12 04.40
IMA    51.44  29 P     12 05.30  -1.7
KDC    52.11  48 iPd   12 12.20   0.4
KHO    52.29 294 eP    12 12.60  -1.2
                ePP   14 18.00
GAR    52.78 296 eP    12 16.30  -0.9
       3.0s  5500.00nm          6.4mb X
                ipP   13 34.00 375kmX
                esP   14 17.30
                iPP   14 19.00
                eScS  21 30.00
TAS    52.91 299 ePc   12 18.30   0.3
       2.0s  4800.00nm          6.5mb X
                iPP   14 28.00
                iS    19 20.00
                iScS  21 28.00
WB2    53.39 183 iPd   12 19.00  -2.5
                eS    19 21.30
WRA    53.39 183 Pc    12 19.70  -1.9
PMR    53.51  35 P     12 19.80  -2.2
       1.0s  *******nm          7.2mb X
KUL    53.52 295 iP    12 22.70   0.2
       3.5s  8000.00nm          6.5mb X
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                iPP   14 28.50
                iS    19 28.90
                iScS  21 35.50
COL    53.89  31 eP    12 25.00   0.3
                iS    19 39.00
FBA    53.89  31 eP    12 24.30  -0.4
                i     12 25.30
DSH    54.06 296 iPd   12 26.00  -0.4
       5.0s  *******nm          6.8mb X
     Z  20s    33.00um          6.4Msz
                iS    19 36.00
ISQ    54.17 177 eP    12 25.00  -2.1
CTA    54.23 169 iP    12 27.30  -0.3
       1.0s   565.00nm          5.9mb X
                i     13 44.00
                iS    19 35.00
HYB    54.36 268 ePd   12 27.00  -1.8
       1.0s   970.00nm          6.1mb X
                e     12 30.80
                eS    19 36.00
                eP'P' 42 20.00
TOA    54.86  34 P     12 31.80   0.0
SAM    55.06 298 ePc   12 32.00  -1.5
       2.0s  2800.00nm          6.3mb X
                iPP   14 40.60
                iS    19 48.00
                iSSS  26 02.20
KHE    55.16 349 iPc   12 33.00  -0.6
       1.3s  2000.00nm          6.3mb X
                iPcP  13 38.00
                iPP   14 40.00
                iPPP  16 02.00
                iS    19 50.00
                iScS  21 45.00
SVE    55.21 319 ePc   12 34.50   0.2
       2.0s  3060.00nm          6.3mb X
     Z  16s    59.50um          6.8MszX
     N  16s     9.50um
     E  16s    28.50um
                ipP   13 55.00 386kmX
                ePP   14 40.00
                iS    19 46.00
                iScS  21 42.00
                eSS   23 42.00
ARU    56.40 319 eP    12 41.00  -1.5
       7.0s  7000.00nm          6.2mb X
     Z  16s    42.50um          6.6MszX
     N  20s     9.00um
     E  16s    41.00um
                epP   14 04.00 398kmX
                iS    20 06.00
                iScS  21 50.00
                eSS   24 00.00
MBL    56.91 199 eP    12 48.00   1.6
ASPA   57.11 183 eP    12 45.00  -2.8
GBA    57.21 265 Pd    12 46.90  -1.8
       0.9s   101.50nm          5.3mb
POO    57.75 272 iPd   12 51.80  -0.7
PCA    58.03  36 P     12 53.40  -0.5
QUE    58.37 287 iP-   12 56.00  -0.7
                eS    20 32.50
KOD    58.97 261 iPd   13 01.80   0.7
INK    59.04  26 eP    13 01.00   0.5
       0.7s   525.00nm          6.1mb X
NAU    59.51 203 iPd   13 02.40  -1.8
WBN    60.30 191 eP    13 08.00  -1.5
MBC    60.75  15 eP    13 10.50  -1.4
SIT    61.33  38 P     13 17.10   1.2
MHI    61.77 297 iPd   13 19.80   0.5
     Z  21s    31.54um          6.4Msz
                eS    21 16.00
ASH    61.99 299 eP    13 22.00   1.5
       2.5s  5500.00nm          6.6mb X
                esP   15 23.00
                ePP   15 44.00
                iPPP  17 14.00
VAN    62.17 299 eP    13 22.00   0.3
     Z  18s    25.40um          6.4Msz
     N  18s    16.60um
     E  18s    28.80um
                ipP   14 40.00 357kmX
                eS    21 20.00
MEK    62.44 198 iPc   13 21.10  -2.5
APA    64.21 335 ePc   13 34.50   0.0
       1.0s  2130.00nm          6.7mb X
     Z  20s    14.00um          6.1Msz
                iPcP  14 09.00
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                ipP   14 59.00 389kmX
                iS    21 42.00
                iScS  22 43.00
KEV    65.22 339 iP    13 40.20  -0.7
     Z  18s    25.80um          6.5Msz
                esP   15 04.00
                ePP   15 48.00
                eScS  21 56.00
                eSSS  29 48.00
                eP'P' 42 23.00
STK    65.38 176 eP    13 40.00  -2.2
CMS    65.39 172 eP    13 42.00  -0.3
KLG    65.76 195 eP    13 46.00   1.3
SOD    66.56 337 iP    13 48.10  -1.3
BAL    66.73 199 eP    13 52.00   1.2
KLB    67.39 198 eP    13 54.00  -0.8
KJF    67.85 333 iP    13 48.10  -9.2X
                iP'P' 42 05.70
KJF    67.85 333 iP    13 56.00  -1.3
     Z  16s    25.80um          6.5MszX
                iPcP  14 32.50
                ipP   15 22.40 393kmX
                esP   16 12.00
                eS    22 28.00
                eScS  23 08.00
                iP'P' 42 12.00
YOU    68.48 170 eP    14 00.70  -0.7
                e     14 04.10
YKA    68.54  28 eP    14 01.10  -0.4
IR7    68.57 299 eP    14 03.00   0.7
                e     42 12.00
YKC    68.60  28 eP    14 01.00  -0.9
       1.0s  1951.00nm          6.8mb X
DAG    68.75 354 iPc   14 02.30  -0.3
       0.9s   605.04nm          6.3mb X
                i     22 39.00
NWAO   68.79 198 eP    14 02.00  -1.3
SUF    69.25 333 iP    14 04.50  -1.3
KRV    69.35 306 iP    14 06.00  -0.8
                iS    22 44.00
CAN    69.59 169 eP    14 07.40  -0.8
                i     14 10.90
                e     15 30.00
                e     21 30.30
                eS    22 51.30
GRS    69.87 305 iPd   14 11.40   1.2
       2.0s  *******nm          7.3mb X
                iPcP  14 29.80
                ipP   15 38.00 392kmX
                iS    22 52.00
MTA    69.90 307 iPc   14 10.40   0.3
     N  20s    23.00um
     E  20s    48.00um
                ipP   15 37.40 394kmX
                iS    22 51.40
SHI    69.90 293 eP    14 09.00  -1.5
PYA    69.95 310 eP    14 11.10   0.7
                ipP   15 36.00 382kmX
                iPP   16 54.00
                ePPP  18 41.00
                eS    22 45.00
                iSPP  23 38.00
WAM    70.43 170 eP    14 12.60  -0.5
                i     14 16.10
                e     21 34.20
TAB    70.54 303 eP    14 16.00   1.8
                i     14 18.00
NUR    71.09 331 iP    14 16.00  -0.8
       0.4s   992.70nm          6.8mb X
     Z  19s    24.10um          6.5Msz
                i     14 19.80
                ipP   15 43.00 392kmX
                esP   16 32.00
                ePP   17 00.00
                eS    23 00.00
                esS   25 28.00
                eSS   27 48.00
                eP'P' 42 04.00
PGC    71.33  44 eP    14 17.90  -0.5
KER    71.74 299 eP    14 19.00  -2.3
GMW    72.27  44 e(P)  14 24.50   0.5
                i     14 26.00
SOC    72.29 311 iPc   14 26.00   1.9
       6.0s  6000.00nm          6.4mb X
                ipP   15 50.00 375kmX
                iS    23 12.00
                eScS  23 54.00
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                eSS   28 00.00
BFW    72.56  46 eP    14 27.50   1.8
PNT    73.15  42 eP    14 28.00  -1.1
LON    73.25  45 ePc   14 31.30   1.6
SHW    73.29  45 eP    14 31.00   1.7
MSL    73.57 303 ePd   14 31.00  -0.7
                e     15 59.50
                e     23 31.50
EDM    74.26  36 ePc   14 34.50  -0.8
FHC    75.02  51 eP    14 41.90   2.1
NEW    75.11  42 eP    14 40.20   0.0
                i     14 41.70
HFS    75.53 334 iP    14 41.00  -1.2
       0.6s   654.00nm          6.5mb X
PNO    75.65  45 eP    14 43.80   0.6
NB2    75.76 336 P     14 43.60   0.0
       0.6s   320.50nm          6.2mb X
WDC    76.07  50 iPc   14 46.80   1.2
                i     16 31.80
                i     17 42.70
                e     24 02.00
MIN    76.79  50 eP    14 50.20   0.4
GDH    77.07   4 iPd   14 52.00   1.5
       1.0s   996.00nm          6.5mb X
                iS    32 41.30
SES    77.09  37 eP    14 50.00  -1.1
BKS    77.73  53 eP    14 55.10   0.4
       0.9s  1530.00nm          6.8mb X
                iPcP  15 02.00
                epP   16 30.00 425kmX
                epPcP 16 41.50
                i     17 11.00
                iPP   18 01.90
                e     18 17.00
                e     19 03.00
                ePPP  19 48.00
                eS    24 20.00
                e     25 57.00
                isS   26 57.00
                esPS  27 46.00
                eSS   29 42.00
                esSS  31 50.00
                e     32 36.00
                eSSSS 35 06.00
                eP'P' 42 03.50
MHC    78.41  53 eP    14 59.80   1.2
ARN    78.48  53 eP    14 59.00   0.2
                e     15 00.30
FFC    78.50  30 eP    14 57.00  -1.5
FCC    78.61  24 eP    14 58.00  -1.0
SAO    78.86  53 P     15 00.00  -0.8
JAS    78.87  52 iPc   15 02.00   1.1
                i     16 43.60
                i     18 06.80
                e     24 32.00
                e     42 01.50
JECI   79.02  44 eP    15 02.00   0.2
BMN    79.51  48 ePc   15 05.00   0.6
                i     15 06.60
KRA    79.69 324 eP    15 04.80  -0.1
PRI    79.73  53 eP    15 06.40   0.8
HPI    80.05  44 eP    15 10.00   2.7
MNA    80.08  50 eP    15 07.20  -0.2
                e     24 47.00
PHAM   80.08  54 eP    15 08.10   0.8
JOS    80.41 323 e(P)  15 10.00   1.3
       1.0s    10.00nm          4.5mb
FRB    80.82  11 eP    15 10.00  -0.5
EUR    80.85  48 iP    15 11.80   0.3
KSP    80.89 326 eP    15 10.70  -0.4
       1.1s  1353.00nm          6.6mb X
                ic    15 14.80
                i     16 40.50
                iS    24 51.00
                e     41 47.00
                e     44 38.00
TMI    80.97  44 eP    15 12.70   0.6
                e     15 14.50
CWC    81.28  52 eP    15 15.00   1.3
BCK    81.45 309 iP    15 16.00   1.6
ISA    81.46  53 eP    15 15.00   0.5
BUD    81.84 323 e(P)  15 15.00  -1.1
BRG    81.93 327 eP    15 16.40  -0.1
CLC    81.96  52 eP    15 18.00   1.0
KDZ    82.15 315 iP    15 18.00   0.2
MOUT   82.31  45 eP    15 20.40   1.3
DUG    82.36  46 eP    15 19.30   0.2
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		i	15 21.10		
BSO	82.39	302	eP	15 21.00	1.8
PAS	82.54	54	iPd	15 22.00	2.0
			epP	16 49.00	379kmX
			esP	17 38.00	
			ePP	18 38.00	
			epPP	20 10.00	
			ePPP	20 38.00	
			iS	25 08.00	
			ePS	26 24.00	
			epScS	26 59.00	
			esScS	27 44.00	
			esSS	33 00.00	
			eSSS	34 25.00	
			e	41 39.00	
			e	43 30.00	
			e	44 32.00	
MWC	82.58	54	eP	15 21.00	0.6
BDW	82.65	43	eP	15 20.50	-0.2
	0.8s		7.01nm		4.5mb
EZN	82.69	313	eP	15 19.80	-0.8
GSC	82.78	52	eP	15 21.00	-0.3
VTS	82.79	317	eP	15 23.00	2.0
IZM	82.99	312	iPc	15 23.10	0.9
MMB	83.13	316	iPc	15 24.00	1.2
RVR	83.17	54	eP	15 24.00	0.9
BKU	83.19	48	eP	15 23.50	0.1
HOF	83.25	328	iPc	15 25.10	1.8
			i	15 26.90	
			eS	25 14.00	
KHC	83.34	326	P	15 23.50	-0.2
	1.0s		642.00nm		6.3mb X
	Z 12s		9.80um		6.4MszX
	N 12s		6.60um		
	E 14s		9.20um		
			i	15 27.50	
			ipP	16 57.50	413kmX
			e	18 50.50	
			S	25 15.00	
			sS	27 49.00	
			e	30 57.00	
PLM	83.89	54	eP	15 26.00	-1.0
GRF	84.00	328	iPc	15 29.00	2.0
			ic	15 31.00	
			e	15 33.40	
			e	15 40.00	
			epP	17 01.60	405kmX
			eSKS	25 24.00	
BAR	84.42	54	eP	15 31.00	1.6
MMU	84.52	47	iP	15 12.10	-18.1X
RSON	84.76	29	eP	15 29.40	-1.3
	0.6s		8.35nm		4.7mb
			e	15 31.40	
OHR	85.12	317	iP	15 31.00	-1.8
			i	15 36.10	
			eS	25 18.60	
RMU	85.43	48	eP	15 38.10	3.6X
ATH	85.44	313	iPc	15 36.00	1.7
			iS	25 24.00	
GLA	85.44	53	eP	15 35.00	0.5
TRI	85.69	324	iPc	15 37.30	1.9
			ipP	17 04.00	375kmX
			iPP	18 59.40	
			ipPP	20 20.00	
			iS	25 24.00	
			iSP	26 20.00	
			isS	28 02.00	
			iSS	31 08.00	
			iSSS	34 58.00	
CTI	86.47	325	iPc	15 41.20	1.9
			ipP	17 10.00	384kmX
GOL	87.05	43	iP	15 44.50	2.1
	0.8s		4.46nm		4.4mb
GLD	87.10	43	iP	15 45.00	2.5
	1.2s		84.85nm		5.5mb
POI	88.35	322	iPc	15 50.00	1.9
			e	17 21.00	
			e	19 26.00	
LHC	88.47	29	eP	15 48.50	-0.1
	1.2s		3531.00nm		7.1mb X
ORO	88.49	327	eP	15 50.50	1.6
			i	17 20.80	
RMP	89.03	322	iPc	15 52.00	0.7
			iPP	19 01.00	
			iS	25 52.00	
			iPS	26 40.00	
RDP	89.06	322	iPc	15 53.50	1.9

			i	17 24.50	
			i	19 35.00	
ALO	89.59	47	eP	15 54.00	-0.3
	1.0s		15.00nm		4.8mb
MSI	90.06	318	eP	15 58.00	1.9
ACO	92.65	42	eP	16 09.50	1.4
	1.8s		4099.80nm		7.1mb X
ISSF	94.38	330	eP	16 14.40	-1.7
RLO	95.29	40	ePc	16 21.50	1.3
WLO	95.56	43	ePc	16 22.80	1.3
	1.2s		1511.50nm		7.0mb X
EBR	95.64	328	eP	16 23.00	1.4
			e	20 24.00	
			e	22 30.00	
			e	26 22.00	
			e	28 32.00	
MNT	96.48	21	iP	16 26.50	1.1
	1.6s		580.00nm		6.5mb X
BHO	96.71	41	eP	16 27.40	0.8
			i	16 30.20	
ABA	97.69	324	eP	16 32.00	1.0
AVE	105.37	330	iPKP	21 08.20	-8.8X
PRY	119.71	256	ePdiff	18 08.00	-1.2
			i	22 47.50	
BFS	120.25	256	iPKPc	21 45.70	0.0
	0.5s		302.82nm		
SWZ	121.55	257	e(PKP)	21 50.00	1.8
SPA	123.52	180	iPKPd	21 52.20	1.4
	1.0s		399.50nm		
	Z 18s		12.37um		6.6Msz
UPA	125.27	46	ePKPc	21 52.00	-3.5X
	0.8s		179.10nm		
	Z 20s		7.45um		6.4Msz
			i	22 41.00	
			i	23 52.00	
			i	24 31.00	
SDV	130.25	37	ePKP	21 55.10	-10.2X
CAR	130.57	31	ePKP	21 56.20	-9.6X
TRN	132.61	25	ePKP	22 00.20	-9.3X
PSO	132.71	50	ePKP	21 59.00	-11.3X
NVL	132.81	202	ePKP	21 58.00	-10.2X
			iPP	24 46.00	
			eSP	34 15.00	
GUV	134.59	28	ePKP	22 00.80	-12.5X
PCH	157.25	97	ePKPc	22 51.00	1.5
			i	23 29.50	
FCH	157.39	97	iPKPc	22 52.00	2.0X
			i	23 30.00	
BAO	161.49	15	e(PKP)	22 48.00	-6.5X
	S.D. = 1.2		on 346 of 367 obs.		

JAN 01, 1984 09h 03m 41.35± 0.07s
33.681 N ± 1.3km 136.793 E ± 1.1km
DEPTH = 383.3 ± 0.6 km
6.6mb (77 obs.)
NEAR S. COAST OF SOUTHERN HONSHU(233)
Felt (IV JMA) at Toteyama, Yokohama, Tokyo, Utsunomiya and Onahama; (III JMA) on Oshima and at Chichibu, Kumagaya, Choshi, Mito, Shirakawa, Chiba, Kakioka, Nikko, Fukushima and Sakata. Felt from Hokkaido to northeastern Kyushu and on the Bonin Islands.

OWA	0.63	308	iP	04 29.60	-0.4
			S	05 07.30	
TK01	0.67	83	eP	04 30.00	0.3
TK02	0.84	71	P	04 30.70	0.4
SHJ	0.89	255	P	04 30.00	-0.7
			S	05 08.50	
TSU	1.04	347	iP	04 31.50	0.3
			eS	05 11.00	
TK03	1.09	63	P	04 32.10	0.9
WKYJ	1.13	299	P	04 31.80	0.1
TK04	1.14	52	P	04 32.40	0.9
NAR	1.28	322	eP	04 33.00	0.9
HMM	1.28	37	eP	04 33.00	0.9
			eS	05 11.00	
OSK	1.32	315	iP	04 32.50	0.1
OSA	1.45	314	iP	04 33.20	0.3
			S	05 14.00	
WKY	1.46	292	iP	04 33.00	0.1
			iS	05 14.50	
NAG	1.49	6	iP	04 34.00	0.9
			eS	05 15.00	

OMA	1.49	52	iP	04 33.80	0.7
			eS	05 17.00	
KYO	1.59	327	iP	04 34.10	0.5
			iS	05 14.60	
HIK	1.65	344	P	04 34.60	0.6
			S	05 17.20	
KOB	1.67	307	iP	04 34.50	0.4
			S	05 15.90	
SUM	1.70	293	iP	04 34.20	0.0
			(S)	05 16.00	
GIF	1.71	359	P	04 34.80	0.5
			e	05 16.40	
SHZ	1.86	46	P	04 35.50	0.3
TKS	1.88	282	iP	04 35.70	0.4
			S	05 17.80	
NGT	1.93	61	eP	04 35.00	-0.7
			iS	05 20.40	
TSRJ	1.97	340	iP	04 36.40	0.5
IID	2.02	25	eP	04 37.00	0.8
			S	05 21.00	
IIDJ	2.02	27	eP	04 37.00	0.7
TSR	2.05	343	eP	04 39.00	2.6
			(S)	05 19.00	
HIM	2.08	304	iP	04 36.70	0.1
			S	05 20.00	
MZH	2.14	326	iP	04 37.10	0.1
			eS	05 22.00	
MRT	2.23	260	P	04 37.50	-0.1
			S	05 22.30	
MIS	2.27	50	iP	04 37.60	-0.3
			S	05 22.60	
KTJ	2.28	56	eP	04 37.00	-1.0
TKSJ	2.30	278	P	04 38.60	0.4
AJI	2.34	54	P	04 38.60	0.2
			eS	05 23.00	
TKM	2.36	286	iP	04 38.70	0.2
			eS	05 25.00	
OSH	2.40	63	iP	04 38.30	-0.6
FUK	2.41	349	iP	04 39.50	0.6
			S	05 26.00	
FUN	2.43	41	eP	04 39.00	-0.2
			S	05 26.10	
KOF	2.46	36	eP	04 39.00	-0.3
			S	05 23.70	
TYK	2.46	319	iP	04 39.70	0.4
			(S)	05 25.10	
TKY	2.49	9	P	04 40.10	0.5
HJJ	2.57	102	P	04 39.20	-1.0
			eS	05 26.00	
KOC	2.72	268	iP	04 42.00	0.7
			iS	05 29.70	
MTM	2.73	20	eP	04 43.00	1.5
			eS	05 30.00	
TOTJ	2.75	311	iP	04 41.60	0.1
TOT	2.83	311	iP	04 42.00	-0.2
			iS	05 30.10	
TAT	2.86	62	iP	04 41.10	-1.3
			S	05 30.30	
KAN	2.86	358	P	04 43.60	1.2
			eS	05 30.00	
YOK	2.94	53	eP	04 43.00	-0.1
			iS	05 32.40	
CHJ	2.98	39	eP	04 44.00	0.6
			eS	05 32.00	
CHJJ	2.98	37	eP	04 43.00	-0.4
MTMJ	3.01	16	iP	04 44.00	0.1
TOY	3.04	6	eP	04 44.00	0.1
			eS	05 35.00	
MAT	3.08	22	P	04 44.00	-0.4
			S	05 33.00	
YONJ	3.14	300	iP	04 45.20	0.4
TOK	3.16	50	iP	04 44.80	-0.2
			S	05 35.00	
NGN	3.19	21	iP	04 45.30	0.0
			eS	05 38.00	
KMG	3.25	40	P	04 45.40	-0.4
			eS	05 36.00	
MAE	3.29	34	P	04 46.30	0.1
			S	05 36.60	
ASZ	3.31	254	iP	04 46.20	-0.1
			eS	05 39.00	
MTY	3.35	274	iP	04 46.60	-0.1
			iS	05 38.20	
MTS	3.54	301	iP	04 49.00	0.5
			i	04 52.40	
			iS	05 42.40	
UWA	3.57	264	iP	04 48.90	0.2

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TKD	3.62	19	P	04	49.50	0.4
			S	05	43.00	
HIR	3.68	282	iP	04	49.80	0.1
			S	05	44.80	
WAJ	3.70	1	iP	04	50.70	0.8
			eS	05	45.00	
KAKJ	3.75	47	eP	04	49.00	-1.4
SAI	3.80	313	iP	04	51.40	0.6
			S	05	47.20	
UTS	3.81	41	iP	04	49.50	-1.5
CHO	3.91	57	eP	04	51.00	-0.9
NIIJ	3.98	26	eP	04	52.00	-0.6
MIT	4.04	47	eP	04	52.00	-1.2
HMD	4.09	289	iP	04	54.00	0.3
			iS	05	51.20	
OIT	4.34	266	P	04	57.30	1.1
NOB	4.42	257	P	04	57.20	0.2
			iS	05	56.00	
SHR	4.43	38	eP	04	56.00	-1.1
			eS	05	53.00	
AIK	4.49	15	P	04	56.90	-0.8
			iS	05	55.80	
NII	4.60	23	eP	04	59.00	0.2
			S	06	00.40	
ONA	4.68	45	eP	04	58.00	-1.7
			iS	05	56.70	
SHNJ	4.75	277	P	05	00.90	0.5
ASJ	4.86	262	P	05	02.80	1.1
			S	06	09.00	
SHN	4.88	275	P	05	02.40	0.7
FKS	5.05	35	iP	05	02.50	-1.0
			S	06	05.00	
KUM	5.17	262	eP	05	05.00	0.2
			S	06	13.80	
YAMJ	5.20	29	eP	05	05.00	-0.1
FKK	5.35	271	P	05	06.80	0.0
			S	06	14.10	
YAM	5.40	31	eP	05	07.00	-0.3
			eS	06	12.00	
SAG	5.44	267	eP	05	08.00	0.3
			S	06	21.00	
KAGJ	5.58	245	P	05	08.80	-0.5
SEN	5.65	35	iP	05	08.90	-1.2
			iS	06	16.50	
KAG	5.67	250	P	05	10.10	-0.1
			iS	06	23.40	
TAJ	5.72	241	iP	05	10.90	0.1
			iS	06	24.70	
SKH	5.77	26	P	05	11.40	0.1
NGS	5.88	263	P	05	13.10	0.5
ISN	5.98	36	eP	05	12.00	-1.6
			iS	06	20.90	
IZU	6.25	277	iP	05	18.00	1.3
			eS	06	34.00	
HJH	6.27	25	eP	05	16.00	-0.9
AKI	6.58	23	iP	05	20.30	-0.1
			S	06	38.10	
OFUJ	6.67	35	eP	05	20.00	-1.4
			(S)	06	37.70	
OFU	6.68	35	iP	05	20.00	-1.5
			iS	06	34.70	
FKJ	6.74	264	P	05	22.70	0.4
			S	06	44.00	
MRK	6.96	29	P	05	23.50	-1.2
			S	06	42.30	
MIY	7.26	33	P	05	26.20	-1.9
			iS	06	46.80	
ADMJ	7.44	22	P	05	30.00	-0.2
AOM	7.80	23	iP	05	34.20	-0.2
			S	07	01.80	
HAC	7.81	28	iP	05	33.00	-1.4
			iS	06	58.00	
CBI	8.05	143	P	05	33.00	-4.3X
NZJ	8.19	232	iP	05	37.90	-1.0
			iS	07	13.60	
HAK	8.70	20	P	05	44.60	-0.3
			S	07	18.50	
MVI	9.19	213	P	05	49.50	-1.2
MRRJ	9.36	20	P	05	51.90	-0.7
SUT	9.49	16	P	05	53.80	-0.3
			iS	07	40.00	
URA	9.69	27	eP	05	57.00	0.5
			S	07	40.40	
SAP	10.02	19	eP	06	00.00	-0.3
			e	06	21.00	
			eS	07	49.00	
			eScS	18	03.00	

HOOJ	10.08	29	P	06	00.80	-0.3
NGO	10.40	230	iP	06	04.50	-0.4
			iS	08	03.50	
OBI	10.51	27	P	06	06.90	0.7
			S	08	02.00	
NAH	10.85	229	iP	06	09.50	-0.7
			iS	08	10.30	
RMJ	10.92	19	P	06	11.20	0.1
			S	08	06.00	
ASA	10.97	22	P	06	11.90	0.2
			S	08	08.20	
KUS	11.03	30	iP	06	11.90	-0.5
			S	08	08.00	
KUSJ	11.26	31	P	06	14.90	-0.2
ASAJ	11.37	22	iP	06	16.50	0.1
NEM	11.83	33	iP	06	21.60	-0.3
			iS	08	25.70	
ABJ	11.85	27	iP	06	23.20	1.1
			eS	08	25.00	
WAK	12.31	16	P	06	28.30	0.9
OKH	20.34	11	iPd	07	49.00	-1.2
	3.0s	*******	nm		7.7mb	X
	Z 11s	44.10um			6.1MszX	
	E 11s	139.00um				
			iS	11	14.00	
SKR	22.09	34	eP	08	05.00	-1.9
	1.3s	*******	nm		7.5mb	
	Z 14s	120.00um			6.5MszX	
	N 16s	81.80um				
	E 14s	129.00um				
			iS	11	43.60	
HKC	22.91	246	iP	08	13.50	-1.3
			iS	11	56.00	
MCO	23.49	247	iP	08	19.00	-1.0
OCP	23.71	221	eP	08	36.50	14.3X
BOD	28.59	335	iPc	09	04.90	-0.6
	0.9s	1060.00nm			6.2mb	
KMI	30.76	263	iP-	09	24.00	-1.0
	E 14s	76.80um				
			pP	10	08.00	216kmX
			sP	10	44.00	
			PcP	13	13.00	
			S	13	53.00	
			sS	15	24.00	
			ScP	15	34.00	
			PcS	16	07.00	
			ScS	19	20.00	
SMY	32.70	43	ePd	09	42.30	1.3
JAY	36.19	173	ePc	10	09.60	-1.1
	1.3s	1332.80nm			6.1mb	
MOM	36.91	162	ePd	10	15.50	-1.2
NST	37.58	251	iPd	10	20.80	-1.4
ADK	37.93	47	iPc	10	24.70	0.0
LSA	38.80	277	iPd	10	33.20	0.5
			pP	11	45.20	368kmX
KHT	39.30	251	eP	10	36.90	0.6
BKB	39.53	212	ePd	10	38.90	0.7
	1.1s	5550.60nm			6.8mb	
MDG	39.64	166	ePc	10	39.50	0.4
RAB	40.38	156	iPc+	10	43.80	-1.3
LAT	41.26	165	ePd	10	51.00	-1.3
MKS	42.02	206	iPd	10	57.20	-1.2
NKI	42.82	46	iPd	11	03.50	-0.9
LMG	43.71	164	eP	11	10.50	-1.4
KLM	44.72	235	eP	11	18.90	-1.0
	0.8s	175.20nm			5.4mb	X
KUPN	44.84	164	eP	11	19.30	-1.4
PRZ	46.00	299	iPc	11	31.00	1.2
	5.0s	*******	nm		6.6mb	X
	Z 16s	47.00um			6.5MszX	
	N 16s	33.00um				
	E 16s	37.00um				
			epP	12	45.00	368kmX
			iS	17	46.00	
			eScS	20	42.00	
			eSS	21	10.00	
TSI	46.58	238	ePd	11	33.90	-0.4
	0.8s	1001.50nm			6.2mb	
TLG	46.61	300	iP	11	34.40	0.0
			ipP	12	50.00	376kmX
			iS	17	49.00	
AAA	46.93	300	iP	11	38.50	1.7
			iPcP	12	56.00	
			iS	17	58.00	
BSI	47.59	243	ePd	11	41.50	-0.6
	1.0s	1053.70nm			6.1mb	
NRN	47.94	298	iPd	11	44.50	-0.5

			eS	18	14.00	
KSH	48.38	295	iPd	11	50.00	2.0
			pP	13	06.00	375kmX
			sP	13	51.00	
			iS	18	23.00	
FRU	48.68	300	ePc	11	49.80	-0.4
	1.6s	1700.00nm			6.1mb	
	Z 14s	37.90um			6.5Ms±X	
	E 16s	47.00um				
			iPcP	13	12.00	
			iPP	13	51.00	
			iS	18	18.00	
			isS	20	30.00	
			iScS	21	00.00	
TTA	50.30	33	iP	12	02.60	0.4
BRW	50.96	22	iP	12	07.50	0.7
KDC	52.15	40	iP	12	16.00	0.3
FBA	53.93	31	iPc	12	28.50	0.0
OPA	58.12	84	eP	12	58.90	0.5
HON	58.29	84	eP	12	59.90	0.3
PVC	59.32	145	iPc	13	05.00	-1.5
			iS	20	51.00	
SIT	61.37	38	iPc	13	20.90	1.2
NOU	62.44	149	iPc	13	26.50	-0.6
			iS	21	26.20	
KAT	62.99	301	iPc	13	31.00	0.4
	6.0s	*******	nm		6.7mb	X
			epP	14	55.00	389kmX
			eS	21	32.00	
KBS	63.30	350	iP+	13	33.20	1.1
NDF	64.18	136	iPc	13	38.00	-0.4
			pP	15	05.00	403kmX
SVA	65.05	136	ePc	13	44.00	0.1
			eS	22	01.00	
MAK	67.54	307	iPc	13	57.80	-1.4
	7.0s	6500.00nm			6.5mb	X
			ipP	15	20.00	371kmX
			iS	22	19.00	
MOS	67.66	323	iPc	13	59.00	-0.8
	2.0s	5900.00nm			7.0mb	
	Z 19s	58.90um			6.8Msz	
	N 15s	35.70um				
	E 15s	39.90um				
			ePcP	14	21.00	
			ipP	15	22.00	376kmX
			iPP	16	36.00	
			iPPP	18	19.00	
			iS	22	24.00	
			esPP	23	08.00	
			eSSS	29	58.00	
TEH	67.96	299	eP	14	01.00	-1.1
PHC	68.12	43	ePc	14	02.00	-0.6
	1.3s	3250.00nm			6.9mb	
MUN	68.13	199	iPd	14	01.70	-1.1
OBN	68.44	323	iPc	14	03.50	-1.0
	1.7s	4100.00nm			6.9mb	
	Z 18s	49.00um			6.8Msz	
	N 18s	31.00um				
	E 16s	45.00um				
			ipP	15	26.00	372kmX
			iS	22	34.00	
RIV	68.50	167	iPc	14	04.50	-0.5
GRO	68.54	308	iPc	14	05.00	-0.4
	Z 20s	53.00um			6.8Msz	
	N 16s	31.00um				
	E 16s	6.70um				
			ipP	15	30.00	385kmX
			iPP	16	42.00	
			iS	22	35.00	
PUL	69.12	329	iPc	14	08.00	-0.6
	3.0s	5600.00nm			6.7mb	
	Z 14s	19.00um			6.5MszX	
	N 14s	18.00um				
	E 14s	26.00um				
			ePcP	14	32.00	
			ipP	15	30.00	368kmX
			iS	22	41.00	
			eSP	23	11.00	
			iSPP	23	24.00	
			eScS	23	28.00	
			iSS	27	19.00	
RKG	69.91	197	eP	14	15.00	1.4
BFD	70.70	175	iPc	14	16.80	-1.4
BKR	70.71	308	iPd	14	19.60	0.9
	Z 18s	40.40um			6.7Msz	
			ipP	15	39.00	353kmX
			iPPP	18	50.00	

01d 09h

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                iS    23 04.00
ERE    70.78 306 iPc   14 20.40   1.4
                ipP   15 46.00 385kmX
                iS    23 05.00
LEN    70.94 307 iPc   14 20.00  -0.1
       1.6s  1500.00nm          6.4mb
     N  18s    32.20um
     E  18s    22.40um
                iS    23 05.00
TOO    71.35 173 iPc   14 21.50  -0.6
GMW    72.31  44 eP    14 28.60   0.9
BFW    72.60  45 iPd   14 30.30   0.8
JMI    72.82 349 eP    14 30.40   0.2
NUE    73.01 128 P     14 33.20   1.2
                S     16 12.00
ANN    73.12 313 iPc   14 31.50  -0.9
       1.8s  4600.00nm          6.8mb
     N  21s    43.40um
     E  17s    21.00um
                ipP   16 00.00 397kmX
                ePP   17 23.00
                ePPP  19 13.00
                iS    23 25.50
LON    73.29  45 iPd   14 33.80   0.3
SHW    73.33  45 iP    14 35.80   2.0
BHD    74.21 300 ePd   14 38.50  -0.3
                e     16 06.00
                i     23 39.00
                e     25 17.50
UPP    74.25 333 iPc   14 37.50  -1.0
       1.6s  7900.00nm          7.1mb
                i     16 02.40
                iS    23 37.00
                i     26 05.00
SIM    75.01 314 iPc   14 43.00  -0.1
     Z  20s    14.00um          6.3Msz
     N  20s    22.00um
     E  20s    19.00um
NEW    75.15  42 iPc   14 44.10   0.2
                e     16 12.00
CRZ    75.66 150 P     14 47.30   0.6
                e     16 21.00
                PP    17 33.00
                S     23 58.00
PNO    75.69  45 iP    14 48.00   1.1
KIS    76.88 318 eP    14 53.00  -0.4
       2.0s  1800.00nm          6.5mb
     Z  16s    15.00um          6.4MszX
     N  16s    10.80um
     E  16s    34.70um
                ipP   16 18.00 375kmX
                iPPP  19 45.00
                iS    24 04.00
KONO   77.32 336 iP    14 55.30  -0.3
IAS    77.50 319 eP    14 57.00   0.2
LVV    77.79 322 iPc   14 58.50   0.2
     Z  17s    56.70um          7.0MszX
     N  18s    74.50um
     E  18s    43.20um
                ipP   16 25.00 382kmX
                iS    24 19.00
                eSS   29 25.00
CLI    78.04 318 iPc   15 01.00   1.2
PPE    78.05 318 iPd   15 02.00   2.2
BER    78.18 338 iP+   15 04.00   3.8X
CFR    78.36 317 iPc   15 00.00  -1.4
ARN    78.52  53 iP    15 03.60   1.0
KDE    78.68 312 eP    15 02.00  -1.3
VRI    78.76 318 iPd   15 03.00  -0.6
TLB    78.78 316 iPc   15 04.00   0.3
AKU    79.06 350 iPc   15 06.10   1.3
       1.6s  3400.00nm          6.9mb
                i     16 38.40
JECI   79.06  44 iPc   15 06.50   0.9
CVO    79.09 318 iPc   15 05.00  -0.4
COP    79.14 332 iPd   15 06.10   0.7
                i     16 32.00
                iS    24 32.00
PSN    79.23 316 iPc   15 07.00   0.9
ISR    79.30 317 iPc   15 07.00   0.4
UZH    79.41 322 iPc   15 06.00  -1.0
     Z  16s    53.00um          7.0MszX
                iS    24 33.00
MLR    79.42 318 iPc   15 07.00  -0.3
KRA    79.68 324 iPc   15 08.30   0.0
       0.8s   969.00nm          6.6mb
     Z  18s    38.40um          6.8Msz
     N  17s    44.80um
     E  17s    34.60um
                i     15 09.80
                i     15 10.30
                i     15 15.80
                i     16 42.10
                iS    24 38.00
MUD    79.83 333 iPd   15 09.80   0.8
       1.0s   192.00nm          5.8mb
MDB    79.88 319 iPd   15 09.00  -0.5
CEI    79.94 321 eP    15 13.00   3.3X
GPA    79.95 312 iPc   15 09.00  -1.0
HRT    80.03 313 iP    15 09.70  -0.7
CMP    80.06 318 ePc   15 15.00   4.5X
BUC1   80.07 317 iPc   15 10.50   0.0
HPI    80.08  44 iP    15 13.00   2.0
                e     17 42.00
SPC    80.09 323 eP    15 11.00   0.2
                i(PP) 16 39.60
                i(PP) 18 22.10
                e(S)  24 45.50
PHAM   80.12  54 iP    15 12.40   1.4
CGN    80.20 317 iPc   15 12.00   0.9
ISK    80.26 313 eP    15 11.20  -0.3
COZ    80.42 319 iPc   15 13.50   1.0
DMK    80.60 314 iPd   15 13.30   0.0
ALT    80.79 311 iP    15 14.90   0.4
DEV    80.85 320 iPd   15 16.00   1.5
JMB    80.90 315 iPd   15 15.00   0.1
TMI    81.01  44 iP    15 17.30   1.5
MGI    81.03 303 eP    15 17.00   1.2
PSZ    81.10 323 eP    15 16.00   0.1
SYP    81.15  54 eP    15 15.00  -1.5
BRN    81.15 329 ePc   15 24.00   8.1X
                epP   16 42.00 336kmX
                eS    24 50.00
PVL    81.30 317 iPc   15 18.00   1.1
DST    81.39 312 iPc   15 17.10  -0.5
RAR    81.41 122 P     15 21.00   3.3X
                S     25 00.00
EDC    81.42 313 iP    15 17.10  -0.5
GNZ    81.50 149 Pc    15 16.70  -1.1
                (pP)  16 51.90 421kmX
                PP    18 36.00
                S     24 56.00
JER    81.58 302 ePd   15 20.00   1.3
DIM    81.74 315 eP    15 20.00   0.8
HAM    81.76 331 iPd   15 19.40   0.4
BRG    81.92 327 iPc+  15 20.00   0.0
       1.8s  2300.00nm          6.6mb
                ipP   16 50.00 395kmX
                iS    25 02.00
                esS   27 30.00
                ePKKP 33 37.00
                eP'P' 41 52.00
SRO    81.97 323 iPc   15 21.00   0.8
                e     16 47.00
                iS    25 05.00
                e     27 36.20
                e     30 27.80
CLL    82.03 328 iPc   15 20.10  -0.4
       1.7s  2100.00nm          6.6mb
                ipP   16 51.20 400kmX
                iS    25 01.00
                PKKP  33 46.00
                P'P'  41 48.00
TCW    82.13 152 P     15 20.10  -0.9
                (sP)  16 51.00
                S     25 02.50
PLD    82.22 316 iPc   15 22.00   0.3
PRU    82.28 327 iPc   15 22.20   0.4
       1.5s  2165.20nm          6.7mb
     Z  16s    21.50um          6.6MszX
     N  15s    20.50um
     E  17s     9.50um
                ipP   16 48.00 374kmX
                e     18 36.00
                iS    25 04.00
                sS    27 32.00
                i     30 40.00
ELL    82.28 309 iPc   15 21.00  -1.3
ZST    82.31 324 iPc   15 23.20   1.2
                e     16 50.90
                e     16 57.00
MOUT   82.35  45 iP    15 23.60   0.8
WEL    82.38 152 iP    15 21.20  -1.1
                sP    16 51.00
                i     16 58.00
                PP    18 45.60
                PPP   20 21.60
                iSS   25 02.00
                ScS   25 22.00
                PS    26 26.00
                PS    27 06.00
                SP    27 33.00
DUG    82.40  46 iPc   15 23.50   0.7
VKA    82.64 325 iPc   15 24.20   0.5
       1.7s  2829.00nm          6.8mb
                i     15 26.50
                epP   16 49.80 372kmX
                isP   17 30.30
                iPP   18 40.50
                ipPP  19 54.30
                iS    25 09.00
BDW    82.68  43 iP    15 22.30  -2.0
       1.0s   194.00nm          5.8mb
                e     16 41.00
MSZ    82.96 158 Pc    15 24.90  -0.2
                i     15 42.80
                (PP)  16 52.70
                i     17 02.10
                eS    25 09.00
YER    83.09 310 iP    15 25.00  -1.3
MOX    83.12 328 iPc   15 26.00   0.0
       1.8s  2500.00nm          6.7mb
     Z  14s    23.70um          6.7MszX
     N  19s    20.00um
     E  20s    29.00um
                ipP   16 54.00 384kmX
                i     17 03.00
                i     17 08.00
                iPP   18 45.00
                iS    25 14.00
                isS   27 44.00
                iSS   30 40.00
                ePKKP 33 45.00
                eSSS  34 00.00
                iSSSS 37 10.00
WIT    83.54 332 iPc   15 29.00   0.9
       1.7s  9688.00nm          7.3mb
                e     15 35.00
                e     16 00.50
                epP   17 02.00 408kmX
                iPP   18 48.10
WET    83.64 327 iPc   15 28.90   0.2
                iS    25 19.00
KMR    83.83 325 iP+   15 30.20   0.5
                ipP   16 56.00 372kmX
                e     19 54.00
VAY    83.95 316 iP    15 29.80  -0.6
GRFO   83.99 328 P     15 31.00   0.6
                e     16 58.00
WTS    84.11 332 iPc   15 30.80  -0.1
       1.9s  3300.00nm          6.8mb
                i     15 36.50
                epP   17 04.50 410kmX
                iPP   18 53.00
SKO    84.17 317 iPc   15 32.00   0.5
                i     16 59.00
                iS    25 19.00
ZAG    84.50 323 iPc   15 33.30   0.3
                eS    25 19.10
BHG    84.66 326 iPc   15 34.00   0.2
DBN    84.67 332 iP+   15 34.00   0.3
     Z  20s    22.00um          6.5Msz
                ipP   17 00.00 372kmX
                iS    25 29.00
                isS   28 03.00
                iSS   31 18.00
                iSSS  34 46.00
BNS    84.76 331 iPc   15 34.00  -0.2
                eS    26 29.00
RSON   84.79  29 iP    15 34.80   0.4
       1.5s  1057.91nm          6.4mb
                i     16 02.30
TNS    84.79 330 iPKPc 15 34.50   0.0
                ePP   17 05.50
                iS    25 29.50
EKA    84.94 338 Pd    15 35.50   0.5
       0.6s   167.60nm          6.0mb
ESK    84.96 338 iPc   15 34.80  -0.4
       1.1s   610.00nm          6.3mb
     Z  18s    16.10um          6.5Msz
     N  21s    29.90um
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     E  19s    26.40um
                i     17 10.30
                i     18 59.20
                iS    25 24.80
LJU   85.06 324 iPc   15 35.20  -0.6
                e     17 06.20
                e     19 03.00
                eS    25 20.00
FUR   85.08 327 iPc   15 36.00   0.1
      1.4s  1895.00nm          6.7mb
                i     17 06.00
                eS    25 34.00
TTG   85.09 319 eP    15 35.50  -0.5
                ePcP  15 40.50
                i     17 17.20
                ePP   18 34.00
                eS    25 21.00
RBL   85.25 325 iPc   15 35.50  -1.3
CEY   85.33 324 iPc   15 36.30  -0.9
HLW   85.39 303 iPc   15 38.00   0.3
                e     17 00.00
                e     18 05.00
                eS    25 25.00
ENN   85.42 331 iPc   15 37.00  -0.4
      1.5s  2107.00nm          6.8mb
                epP   17 14.50 428kmX
                iPP   19 05.10
RMU   85.47  48 iP    15 41.10   2.9
GLA   85.48  53 eP    15 37.00  -1.2
GAP   85.68 326 eP    15 38.60  -0.3
SCE   85.71 326 iPc   15 38.00  -1.2
UCC   86.01 332 Pc+   15 40.40   0.1
      1.8s   811.00nm          6.3mb
BUH   86.06 329 iPc   15 39.90  -0.8
GWF   86.09 329 iPc   15 40.20  -0.6
OGA   86.15 326 iPc   15 40.80  -0.6
WLF   86.18 330 P+    15 44.00   2.9
                pP    17 11.00 376kmX
                e     18 04.00
                S     25 32.00
                i     25 44.00
                e     28 20.00
PMO   86.43 111 iP    15 44.30   1.6
AFR   86.47 114 iP    15 44.90   2.0
      1.3s  3910.00nm          7.1mb
DOU   86.47 331 Pd    15 42.70   0.2
                pP    17 12.00 386kmX
                e     18 09.00
                S     25 32.00
                e     25 46.00
                e     28 25.00
SLE   86.63 328 eP+   15 42.50  -0.9
TPT   86.63 110 iP    15 45.30   1.6
      1.3s  4020.00nm          7.1mb
SAX   86.64 327 eP+   15 43.20  -0.6
PPT   86.64 114 iP    15 45.90   2.1
      1.3s  3565.00nm          7.1mb
CDF   86.67 329 iPc   15 43.00  -0.7
      1.6s   960.10nm          6.4mb
OSS   86.69 326 eP+   15 43.50  -0.4
PAE   86.69 114 iP    15 46.00   2.0
      1.3s  2750.00nm          7.0mb
PPN   86.73 113 iP    15 46.00   1.8
      1.3s  3095.00nm          7.0mb
VAH   86.77 111 iP    15 45.80   1.4
      1.3s  2065.00nm          6.8mb
ECH   86.87 329 iPc   15 43.60  -0.9
ZUL   86.89 328 eP+   15 43.80  -0.9
RUV   86.94 110 iP    15 46.70   1.5
      1.3s  3215.00nm          7.0mb
TVO   87.02 114 iP    15 47.80   2.2
      1.3s  3910.00nm          7.1mb
LLS   87.08 327 eP+   15 45.10  -0.7
GOL   87.09  43 iP    15 47.00   0.9
      1.5s  1022.01nm          6.5mb
                e     17 16.00
GLD   87.14  43 iP    15 47.10   0.9
      1.5s  1906.25nm          6.7mb
                e     17 21.00
VDL   87.15 327 eP+   15 45.50  -0.7
BAF   87.23 329 iPc   15 45.40  -1.0
BRT   87.27 319 eP    15 47.50   1.0
                e     17 18.00
                e     19 16.00
DMU   87.29 339 iPc   15 46.40  -0.1
      1.7s  3120.00nm          6.9mb
SAL   87.31 325 eP    15 45.50  -1.2
BSF   87.32 329 iPc   15 45.80  -1.0
      1.4s   551.30nm          6.2mb
HAU   87.38 329 iPc   15 46.20  -0.8
      1.4s   490.00nm          6.2mb
PRO   87.39 323 eP    15 46.50  -0.5
ROF   87.39 329 iPc   15 46.00  -1.1
DLE   87.72 339 iPc   15 48.10  -0.4
      1.8s  3200.00nm          6.9mb
FOG   87.77 320 eP    15 49.80   0.9
ALP   87.87 322 iPc   15 49.40   0.1
MMK   88.17 327 eP+   15 50.30  -0.8
DUI   88.20 321 iPc   15 50.00  -0.9
                e     17 24.00
ORI   88.26 318 iPc   15 51.00  -0.2
                e     17 24.00
AQU   88.26 322 iPc   15 51.00  -0.3
                i     17 21.50
                i     19 23.50
FIR   88.31 324 eP    15 51.50   0.1
                iS    25 40.00
DIX   88.39 327 eP+   15 51.60  -0.6
SGO   88.53 319 iPc   15 51.50  -1.0
                e     17 22.50
                e     19 26.00
MNS   88.61 322 iPc   15 51.50  -1.3
                e     17 22.00
                e     19 29.00
EWS   88.62 328 eP+   15 52.40  -0.7
LOR   89.00 330 iPc   15 53.90  -0.7
      1.4s   551.30nm          6.2mb
LBF   89.18 330 iPc   15 54.50  -1.0
      1.4s   367.50nm          6.1mb
GRC   89.31 331 iPc   15 55.60  -0.4
                iS    26 16.40
SSF   89.32 330 iPc   15 55.30  -0.7
      1.4s   612.50nm          6.3mb
SMF   89.51 330 iPc   15 56.10  -0.9
      1.6s   880.10nm          6.4mb
FLN   89.51 333 iPc   15 56.20  -0.7
      1.6s   800.10nm          6.3mb
LDF   89.52 333 iPc   15 56.20  -0.7
      1.6s  1120.10nm          6.5mb
SCH   89.55  13 ePc   15 57.00  -0.1
      1.2s   657.00nm          6.4mb
AVF   89.59 330 iPc   15 56.70  -0.6
      1.6s  1120.10nm          6.5mb
ALO   89.63  47 iPc+  15 59.00   1.0
      1.0s   400.00nm          6.2mb
    Z  18s    13.23um          6.4Msz
                epP   17 28.00 382kmX
MCO   89.88 167 eP    15 59.00   0.9
      1.6s     1.10nm          3.5mb X
GRR   89.96 333 iPc   15 58.60  -0.4
      1.6s  1680.20nm          6.7mb
LPF   90.33 333 iPc   16 00.60  -0.1
      1.6s  2080.30nm          6.8mb
MZF   90.37 330 iPc   16 01.10   0.1
      1.6s  1440.20nm          6.6mb
CVF   90.38 324 iPc   15 59.90  -1.2
      1.6s   368.60nm          6.0mb
TCF   90.47 330 iPc   16 01.00  -0.4
      1.4s   673.80nm          6.3mb
FRF   90.68 326 iPc   16 01.10  -1.3
      1.6s   480.00nm          6.2mb
LSF   90.78 331 iPc   16 02.30  -0.5
      1.4s  1225.10nm          6.6mb
LRG   90.89 326 iPc   16 02.60  -0.7
      1.6s   832.10nm          6.4mb
LMR   90.91 326 iPc   16 02.60  -0.9
      1.6s   720.10nm          6.3mb
CDR   90.99 327 ePc   16 02.70  -1.1
                i     16 06.00
                ipP   17 33.90 392kmX
                iPP   20 50.00
                e     25 58.10
GIB   91.06 318 eP    16 04.50   0.1
                e     19 43.00
MFF   91.16 332 iPc   16 04.60   0.0
      1.6s  3040.40nm          7.0mb
RJF   91.55 330 iPc   16 06.40   0.0
      1.6s  1680.20nm          6.7mb
CAF   91.63 330 iPc   16 07.00   0.2
      1.6s  1120.10nm          6.6mb
AAE   91.66 282 eP    16 08.00   0.3
ERC   91.80 319 eP    16 06.50  -1.1
LFF   92.17 330 iPc   16 09.50   0.3
      0.6s   656.20nm          6.8mb
LPO   92.19 330 iPc   16 09.30   0.0
      1.6s  1200.10nm          6.6mb
ACO   92.69  42 eP    16 12.30   0.5
                e     20 01.50
MLS   93.64 329 eP    16 15.20  -0.8
EPF   93.89 330 iPc   16 16.30  -1.0
      1.6s   280.00nm          6.1mb
RRO   94.03  42 eP    16 19.30   1.3
                e     16 21.00
OCO   94.47  42 ePc   16 20.60   0.6
PCR   94.56 248 eP-   16 21.90   1.1
ACM   94.59  30 ePc   16 20.70   0.3
SIO   94.95  41 eP    16 22.60   0.4
TUL   95.10  40 iPc+  16 22.50  -0.4
      2.9s  4138.80nm          7.1mb
    Z  18s    14.90um          6.5Msz
AAM   95.78  29 ePc   16 26.00   0.2
ELF   95.93  27 P     16 27.00   0.5
OTT   95.96  22 eP    16 26.00  -0.5
      1.0s   219.00nm          6.3mb
LDN   96.12  27 P     16 28.00   0.7
IN1   96.30  31 ePc   16 28.00  -0.1
UTO   96.34  29 ePc   16 30.50   2.2
IN2   96.40  32 ePc   16 28.80   0.2
JCT   96.76  47 iP    16 30.20  -0.3
      1.0s   150.00nm          6.2mb
                i     18 21.00
BNH   98.03  20 iP    16 40.00   4.0X
                e     18 09.00
ALI   98.08 327 iP+   16 40.50   4.3X
                iPP   20 43.50
TOL   98.34 331 ePc   16 37.00  -0.5
      1.5s     7.00nm          4.8mb X
                i     18 12.00
                iPPP  22 16.00
                iSKS  26 36.00
                iS    27 28.00
                iPS   28 50.00
                iSS   34 10.00
                eSSS  37 55.00
STJ   98.67   7 eP    16 40.50   1.7
PTO   99.01 334 P     16 40.20  -0.3
                iS    26 40.00
                iPS   27 30.00
NAI   99.02 274 eP    16 42.00   0.9
      2.0s   352.94nm          6.3mb
MTE   99.26 333 ePd   16 41.50  -0.2
CRT  100.42 329 ePdiff16 45.50  -1.2
                iPP   20 59.70
PAL  100.48  23 ePdiff16 47.80   1.0
                pP    18 20.00
RKT  101.06 110 ePdiff16 53.00   3.2X
      1.3s   120.00nm          6.3mb
MAL  101.16 329 iPdiff16 50.20   0.3
                iPP   20 56.00
                iS    27 41.00
                iPS   29 36.00
BLA  101.41  30 ePdiff16 54.10   3.0X
      2.0s   876.47nm          7.0mb
PAF  101.59 218 iPdiff17 00.00   8.5X
SFS  102.14 330 ePdiff16 54.00  -0.2
                e     18 20.00
                iPP   21 06.00
                ePPP  22 30.00
                eS    26 33.00
                iPS   28 05.00
                iSP   30 10.00
                iSS   35 00.00
                iSSS  39 00.00
CRX  104.62  54 Pdiff 17 09.60   3.5X
IIC  104.66  54 ePdiff17 10.50   4.3X
IIM  105.01  54 ePdiff17 16.00   8.2X
IIP  105.18  54 ePdiff17 14.00   5.4X
AVE  105.36 329 iPdiff17 09.00   0.3
III  105.48  55 ePdiff17 13.00   3.3X
IIT  105.81  54 ePdiff17 17.00   5.7X
TAM  107.16 313 ePdiff17 16.50  -0.6
VHO  108.13  54 iPdiff17 33.00  11.5X
BNG  110.55 290 iPdiff17 32.00  -0.2
      0.9s    10.00nm
MTD  111.59 264 ePdiff17 40.00   3.2X
MTD  111.59 264 iPKP  21 34.00   1.2
                iPP   22 21.00
                iPKKP 32 28.00
KRI  113.25 265 iPKP  21 36.00  -0.1
                iPP   22 33.00
                iPKKP 32 22.00
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01d 09h

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KRI   113.25 265 ePdiff17 43.00  -1.2
MAW   114.92 204 ePdiff18 01.00  10.8X
       1.0s   103.00nm
     Z  16s     6.70um          6.3MszX
BUL   115.68 262 ePdiff17 56.00   1.0
       1.0s    15.00nm
BUL   115.68 262 iPKP  21 40.00  -0.7
                 iPP   22 52.00
                 iPKKP 32 15.00
EVA   118.19 256 e(Pdif18 16.00  10.0X
                 i     21 45.00
BLF   121.60 254 iPKPd 21 51.50  -0.2
GRM   122.89 249 iPKPd 21 53.50  -0.4
       1.2s   171.88nm
     Z  20s    12.06um          6.5Msz
                 i     23 30.50
SJG   124.04  27 ePdiff18 34.00   2.0
KIC   126.03 310 iPKP  21 59.30  -1.2
                 e     31 36.00
BPA   126.51  22 iPKPd 22 00.40  -0.9
SUR   127.10 253 iPKPd 22 02.80   0.5
       1.3s   230.77nm
     Z  18s    30.41um          7.0Msz
                 i     24 45.00
SEG   127.23  22 iPKPd 22 01.90  -0.8
SFG   127.46  22 ePKP  22 02.60  -0.5
PAG   127.52  23 ePKP  22 02.90  -0.4
MGG   127.74  22 ePKP  22 03.00  -0.6
MDN   128.28  23 ePKPd 22 04.30  -0.4
CER   128.63 252 ePKP  22 05.50   0.5
       1.0s   160.00nm
LGN   128.89  37 ePKP  22 12.40   6.5X
FDF   128.91  23 iPKPc 22 05.55  -0.4
BIM   129.13  23 ePKP  22 06.05  -0.3
MVM   129.16  22 ePKP  22 06.15  -0.3
TOV   129.92  35 iPKPd 22 08.50   0.5
       0.9s   168.50nm
CAR   130.60  31 ePdiff19 02.00   0.7
                 ePP   21 16.00
BOG   132.02  43 ePdiff19 09.00   1.0
                 ePP   22 12.00
ATB   148.61  17 iPKP  22 40.50  -0.8
ARE   149.32  63 iPKPc 22 42.50  -0.2
CAI   152.40 347 ePKPc 22 47.10   0.2
       1.3s   829.81nm
ANT   154.21  74 iPKP  22 49.50   0.4
CON   155.48 106 iPKP  22 50.00  -0.4
                 i     23 20.80
SOB1  155.55 354 ePKP  22 51.60   0.4
                 i     23 03.60
LNV   156.59  99 ePKP  22 52.00   0.0
                 i     23 24.40
TACH  156.94  98 iPKPc 22 53.50   1.0
                 i     23 27.50
PEL   157.08  96 iPKP  22 54.00   1.3
                 i     23 28.60
YJA   157.26  65 ePKPc 22 53.80   0.0
BACH  157.27  97 ePKP  22 54.50   1.5
HJA   157.91  68 ePKPc 22 55.00   1.2
                 e     23 31.00
CEN   158.40  91 e(PKP)22 59.00   4.7X
MDZ   158.56  95 ePKP  22 53.90  -0.5
SLA   158.63  71 iPKPc 22 54.50  -0.4
CFA   158.83  91 ePKPd 22 55.60   0.9
                 S     23 35.30
CYA   159.97  81 iPKPc 22 55.50  -0.6
BAO   161.52  15 iPKP  22 58.80   0.8
TCA   161.81  88 ePKPc 22 57.00  -0.9
VBA   164.17 111 iPKPd 23 00.00   0.1
                 e     23 57.50
                 e     25 47.00
                 e     27 45.00
LPA   167.76 100 iPKPd+23 03.20   0.5
       1.2s  2000.00nm
VAO   168.86  18 ePKPc 23 04.90   1.0
                 i     24 19.20
BMA   169.02   5 ePKPc 23 05.20   1.2
     S.D. = 0.9  on 432 of 456 obs.

   FEB  07, 1984  21h 33m 28.34± 0.08s
    9.998 S ± 2.1km  160.477 E ± 2.0km
   DEPTH =  10.9km  ( 15 depth phases)
   6.7mb ( 60 obs.)  7.5Msz ( 31 obs.)
SOLOMON ISLANDS                    (193)
      Damage in southern Guadalcanal
      and some landslides reported.
      Felt throughout the Solomon
      Islands, (VI) at Honiara and
      (III) at Rabaul, New Britain.
HNR     0.77 317 iPc   33 34.00  -1.2
                 IS    33 47.00
VSG     1.06 314 iP    33 39.00  -1.2
SVO     1.07 322 iPd   33 39.00  -1.3
PAA     6.15 306 ePc   34 54.50   1.1
                 eS    36 07.00
LOSU    9.40 278 eP    35 38.00  -0.7
RAB    10.06 304 eP-   35 48.00   0.1
PVC    10.82 136 iPd   35 57.00  -1.3
KOU    11.12 161 iPc   36 02.70   0.3
KUPN   12.11 269 eP    36 15.00  -0.8
KVG    12.12 307 eP    36 15.00  -1.0
LMG    12.21 274 P     36 17.00  -0.3
PMG    13.15 271 P     36 29.00  -0.7
NOU    13.52 156 iPc   36 35.50   0.9
LAT    13.74 283 P     36 37.00  -0.6
CTA    16.99 232 iPd-  37 18.60  -1.1
WWW    17.88 290 eP    37 30.50  -0.3
NDF    18.18 117 iPc   37 35.20   0.7
BRS    18.76 202 iP    37 41.90   0.2
VUN    19.17 117 ePc   37 46.00  -0.7
        2.4s  3921.00nm          6.2mb
SVA    19.21 117 eP    37 46.80  -0.3
JAY    21.00 289 ePc   38 02.70  -3.7X
        1.0s   221.60nm          5.5mb X
COO    21.98 200 iPd   38 16.70   0.4
ISO    22.79 240 iPd   38 24.40   0.1
RIV    25.22 198 eP    38 53.00   5.3X
        0.8s  *******nm          8.1mb X
CMS    25.34 210 eP    38 49.00   0.2
YOU    26.59 203 iPc   39 01.40   0.9
WB2    27.07 246 iPd   39 03.20  -1.8
WRA    27.08 246 Pd    39 03.30  -1.8
        0.9s   199.50nm          5.8mb
CAN    27.29 201 iPc   39 08.10   1.1
                 i     39 13.00  17km
AFI    27.41 101 iPc   39 07.00  -1.3
                 S     44 00.00
STK    27.93 216 iPd   39 11.70  -1.0
GUA    28.02 326 eP    39 12.70  -1.0
        1.1s  2592.41nm          6.9mb
                 e     39 20.80  28kmX
                 e(S)  44 04.50
GUMO   28.09 326 eP    39 13.60  -0.7
        1.7s  7487.81nm          7.2mb
                 e     39 20.20  23kmX
PJG    28.09 326 eP    39 13.60  -0.7
WAM    28.12 200 iPc   39 15.70   1.3
                 i     39 20.60  17km
ASPA   28.77 238 eP    39 18.00  -2.4
MTN    28.90 262 eP    39 19.00  -2.6
NUE    29.99 111 eP    39 28.90  -2.5
TOO    30.60 204 eP    39 37.00   0.4
KNA    31.41 256 eP    39 42.00  -1.9
BFD    31.53 208 eP    39 44.00  -0.8
ADE    31.82 215 iPd   39 46.80  -0.6
GNZ    32.57 154 P     39 52.50  -1.3
AAI    32.64 279 eP    39 51.40  -3.3X
        0.8s   127.30nm          5.9mb
TCW    33.39 161 P     40 00.00  -1.0
WEL    33.62 160 iP+   40 02.80  -0.1
                 S     45 27.00
                 ScS   50 29.00
SNZO   33.62 160 e(P)  40 03.00   0.1
WBN    35.86 239 iPd   40 20.90  -1.5
KUPT   36.29 266 eP    40 30.00   3.9X
                 eS    46 45.00
MNI    37.25 286 eP    40 32.00  -2.2
        1.0s   249.60nm          5.9mb
                 e(S)  46 33.00
DAV    38.68 295 eP    40 45.00  -1.2
RAR    39.77 111 P     40 56.00   0.9
                 eS    47 00.00
MKS    40.90 274 ePd   41 05.50   0.9
CBI    40.92 335 P     41 03.30  -1.2
                 S     42 51.70
KLG    41.72 235 iPc   41 10.00  -1.1
MEK    42.87 242 iPd   41 19.70  -0.9
PAP    43.82 299 ePd   41 32.80   4.5X
        1.5s    12.80nm          4.5mb X
MCQ    44.40 181 eP    41 38.00   5.5X
KLB    44.97 235 eP    41 40.00   2.5
BAL    45.52 237 eP    41 36.00  -5.9X
MVI    45.58 322 eP    41 47.00   4.6X
PGP    45.65 300 ePc   41 44.50   1.4
NWAO   45.83 233 eP    41 42.00  -2.3
MUN    46.34 235 eP    41 50.00   1.6
RKG    46.40 232 eP    41 54.00   5.2X
KKM    46.88 288 eP    41 51.20  -1.8
        1.2s   412.20nm          6.4mb
                 e     42 02.90  42kmX
                 e     42 14.40
TRT    47.30 269 ePd   41 55.40  -0.8
        1.0s    62.30nm          5.7mb X
BAG    47.40 303 eP-   41 54.00  -3.1X
NAH    48.08 319 P     42 04.30   2.2
NGO    48.16 320 P     42 05.10   2.4
                 S     49 15.00
NZJ    48.50 323 eP    42 09.00   3.7X
                 S     49 16.00
MYK    48.72 316 eP    42 11.00   4.0X
KMJ    48.73 319 P     42 10.00   2.9X
                 S     49 21.80
AFR    48.78 105 iP    42 09.80   2.1
OSH    48.80 337 P+    42 09.40   1.9
                 S     49 19.90
KYS    48.89 338 eP    42 10.30   2.1
PAE    48.97 105 iP    42 11.20   2.1
PPT    48.98 105 iP    42 11.30   2.1
        1.0s  1705.00nm          7.0mb
CHO    49.11 339 eP    42 10.00   0.1
PPN    49.11 105 iP    42 12.50   2.3
AJI    49.15 337 eP    42 11.00   0.8
                 e     49 24.00
ISI    49.20 314 eP    42 12.00   1.2
                 eS    49 29.00
YOK    49.29 337 iP    42 12.90   1.7
TVO    49.29 105 iP    42 14.00   2.3
SHZ    49.37 336 eP    42 13.00   1.1
TAJ    49.41 326 eP    42 14.00   1.7
                 eS    49 35.00
OYM    49.43 337 eP    42 10.80  -1.6
TOK    49.47 338 P+    42 15.20   2.6
                 eS    49 34.00
TBI    49.52 112 eP    42 16.00   2.7
        1.2s  3125.00nm          7.2mb
SRY    49.58 337 eP    42 12.90  -0.7
MRT    49.77 331 Pd    42 16.30   1.3
                 e     49 32.00
TSK    49.81 338 eP    42 15.10  -0.2
MIT    49.83 339 eP    42 16.00   0.6
                 eS    49 30.00
ASZ    49.91 329 eP    42 17.00   0.9
                 eS    49 26.00
DDR    49.96 337 eP    42 15.70  -0.8
IID    50.06 336 eP    42 18.00   0.7
                 e     49 35.00
MYZ    50.09 327 eP    42 19.00   1.5
UTS    50.19 338 eP+   42 20.00   1.8
                 e     49 40.00
OSK    50.22 333 eP    42 20.00   1.5
KAG    50.30 326 eP    42 22.00   3.0X
KOC    50.33 331 eP    42 20.00   0.8
                 e     49 40.00
OSA    50.33 333 eP    42 21.00   1.7
GIF    50.41 335 eP+   42 21.00   1.2
                 e     49 44.00
NOB    50.48 328 eP    42 21.00   0.6
                 eS    49 39.00
KOB    50.49 333 eP    42 22.00   1.5
                 e     49 39.00
HIK    50.52 334 eP    42 24.00   3.3X
                 e     58 05.00
KYO    50.52 334 eP    42 22.00   1.3
                 eS    49 42.00
PMO    50.56 101 iP    42 20.30  -1.0
TKM    50.70 332 eP    42 23.00   0.9
                 eS    49 44.00
MAT    50.81 337 eP    42 19.00  -4.0X
        2.2s  1000.00nm          6.4mb
                 eS    49 40.00
VAH    50.81 102 iP    42 22.00  -1.2
        1.0s  1215.00nm          6.8mb
TPT    50.83 101 iP    42 22.40  -1.0
        1.0s  2050.00nm          7.0mb
OIT    51.02 329 iPd   42 26.50   2.0
                 eS    49 22.00
RUV    51.05 101 iP    42 24.00  -1.1
        1.0s  1410.00nm          6.8mb
OKA    51.07 332 eP    42 24.00  -0.9
                 eS    49 54.00
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KUM	51.17	328	eP	42 25.00	-0.6
HON	51.29	52	P	42 28.00	1.2
KIP	51.34	52	P	42 28.00	0.8
SEN	51.37	340	eP	42 37.00	9.9X
			S	49 55.50	
ISN	51.39	341	eP	42 28.00	0.7
			e	49 41.00	
OPA	51.49	52	P	42 27.00	-1.3
HIR	51.52	330	eP	42 30.00	1.7
			e	49 55.00	
SHK	51.53	331	eP	42 20.00	-8.5X
YAM	51.55	340	eP	42 29.00	0.5
			eS	49 59.00	
NGS	51.56	327	eP	42 30.00	1.4
			S	49 56.20	
MOK	51.58	52	P	42 30.00	1.0
ANP	51.61	313	eP-	42 32.00	2.7
			eS	49 56.00	
TOT	51.63	333	eP	42 32.00	2.9X
			eS	49 55.00	
FKK	51.94	328	Pd	42 32.50	1.0
			S	49 53.50	
SHN	51.94	329	eP+	42 33.00	1.5
			eS	50 01.00	
AIK	52.10	338	eP	42 33.00	0.4
FKJ	52.10	326	P+	42 34.50	1.8
			S	50 01.50	
MTS	52.10	332	iP+	42 35.20	2.5
			S	50 03.00	
HMD	52.12	330	eP	42 34.00	1.2
			eS	50 04.00	
MIY	52.29	342	eP	42 36.00	1.9
			eS	50 06.00	
MKH	52 53	56	P	42 36.00	-0.2
MRK	52.59	341	eP	42 35.00	-1.3
			eS	50 13.00	
AKI	52.96	340	eP	42 40.00	1.0
			eS	50 23.00	
IZU	52.99	327	eP	42 40.00	0.6
			e	50 13.00	
HAC	53.24	342	eP	42 40.00	-1.1
			eS	50 20.00	
OZH	53.60	311	iPc	42 45.00	1.0
URA	54.38	344	eP	42 50.00	0.6
			eS	50 35.00	
HAK	54.65	342	eP	42 51.00	-0.4
			e	50 40.00	
KUS	54.73	346	eP	42 52.00	0.0
			eS	50 41.00	
NEM	54.78	347	eP	42 50.00	-2.4
			eS	50 43.00	
OBI	54.97	345	eP	42 54.00	0.2
			e	50 43.00	
SSE	55.57	319	P+	42 56.60	-1.7
	6.0s	29.20nm		4.5mb X	
	Z 22s	316.90um		7.4Msz	
	E 20s	188.70um			
			sP	43 11.00	86kmX
			i	43 18.00	
			PcP	44 06.00	
			S	50 37.50	
			PS	50 48.50	
			sS	50 53.00	
			i	57 09.50	
HKC	55.59	306	eP	43 01.00	2.4
SAP	55.62	343	eP	42 55.00	-3.5X
			eS	50 47.00	
SUT	55.69	342	eP	43 02.00	3.0X
			eS	50 55.00	
ABJ	55.73	346	eP	43 00.00	0.7
			eS	50 47.00	
ASA	55.99	344	eP	43 02.00	0.9
			eS	50 50.00	
MCO	55.99	305	eP	43 09.00	7.5X
KUR	56.14	349	iPd	43 06.00	3.9X
	1.0s	770.00nm		6.7mb	
			isP	43 28.50	
			ePPP	46 26.00	
			iS	50 40.00	
RMJ	56.36	344	eP	43 07.00	3.3X
			eS	51 06.00	
GZH	56.64	306	eP	43 05.50	-0.7
NJ2	57.71	318	Pc	43 14.00	0.4
			S	51 10.00	
KGM	58.14	279	ePc	43 17.20	0.3
YSS	58.93	346	iPc	43 21.60	-0.2
	1.0s	240.00nm		6.3mb	
			epP	43 33.50	41kmX
			esP	43 40.00	
			ePcP	44 13.00	
			iS	51 26.00	
VLA	58.94	336	iPd	43 24.00	2.0
			iS	51 24.00	
WHN	59.88	314	P	43 28.50	-0.2
KLM	60.01	279	eP	43 31.30	1.4
			e	43 41.10	32kmX
PPI	60.48	275	eP	43 32.50	-0.6
			e(S)	48 14.00	
SKR	60.53	357	eP	43 30.00	-2.8
	6.0s	******nm		7.4mb X	
			ePcP	44 12.00	
			ePP	45 47.00	
			iS	51 46.00	
DL2	60.62	326	iPc	43 33.00	-0.5
IPM	60.96	281	ePd	43 34.20	-2.2
	1.4s	160.40nm		6.0mb	
			e	43 55.80	85kmX
			e	44 59.60	
MDJ	61.12	335	iPc	43 36.50	-0.4
			iS	51 57.00	
TIA	61.46	321	Pc	43 38.90	-0.5
SNY	61.70	329	eP	43 39.50	-1.4
			S	52 02.50	
CN2	62.28	332	Pc	43 41.80	-3.0X
			S	52 01.00	
PSI	62.57	278	ePc	43 44.50	-2.7
	1.6s	337.00nm		6.3mb	
PET	62.78	359	eP	43 47.00	-0.8
	2.5s	2570.00nm		7.0mb	
			eS	52 14.00	
RKT	62.80	111	iP	43 50.60	2.0
	1.6s	2585.00nm		7.2mb	
TSI	63.10	279	ePd	43 51.00	0.3
PCT	63.47	292	eP	43 56.20	3.1X
	1.5s	710.00nm		6.6mb	
			e	12 37.60	
SMY	63.56	9	eP	43 53.80	0.8
	Z 20s	300.00um		7.5Msz	
			i	43 56.80	10km
			i	44 01.30	
GYA	63.58	306	P	43 53.00	-0.9
NNT	64.37	289	eP	44 01.10	2.1
BJI	64.49	324	eP	43 57.00	-2.3
	Z 20s	199.00um		7.3Msz	
	E 19s	148.00um			
			pP	44 36.00	164kmX
			sP	44 56.00	
			ScP	48 07.00	
			PcS	48 28.00	
			S	52 31.00	
			e	53 48.00	
			SS	56 56.00	
ADK	64.70	15	eP	43 58.50	-2.0
			i	44 01.10	8km
			i	44 04.80	
NST	64.96	292	eP	44 02.00	-0.8
TIY	65.34	320	P	44 04.50	-0.5
XAN	65.64	314	P	44 05.00	-2.0
KHT	66.09	291	eP	44 13.90	3.8X
KMI	66.18	303	P+	44 10.00	-0.9
	E 17s	127.30um			
			sP	44 29.00	
			PcP	44 35.00	
			PP	46 32.00	
			S	52 56.00	
			sS	53 15.00	
BSI	66.70	280	ePd	44 15.00	0.9
CHG	67.08	295	iPd	44 13.00	-3.4X
	0.6s	10.00nm		5.2mb X	
CHTO	67.08	295	e(P)	44 12.00	-4.4X
HHC	67.75	322	P	44 20.00	-0.4
CD2	67.89	309	eP	44 20.50	-0.9
			S	53 19.00	
NKI	67.95	19	eP	44 19.60	-1.6
			i	44 21.80	7km
			i	44 24.90	
BTO	68.55	321	Pc	44 25.00	-0.4
			S	53 32.00	
LZH	70.26	314	Pc	44 35.50	-0.6
	2.5s	1461.00nm		6.7mb	
	N 11s	14.70um			
	E 17s	85.50um			
			pP	44 41.00	18km
			S	53 29.00	
			PS	53 57.00	
MGD	70.29	355	ePc	44 34.00	-1.5
	1.0s	320.00nm		6.4mb	
			isP	44 52.00	
			iPcP	45 02.00	
			iS	53 41.00	
TUP	72.71	337	ePc	44 51.00	0.9
	1.7s	790.00nm		6.5mb	
SDN	72.81	22	eP	44 47.10	-3.6X
			e	44 50.20	10km
			i	44 54.30	
SEY	72.94	356	ePc	44 49.40	-1.9
	1.8s	2930.00nm		7.1mb	
			ePcP	45 04.00	
			eS	54 12.00	
			iSP	54 35.00	
			eSS	58 43.00	
GTA	74.64	316	P	45 01.80	-0.1
			S	54 38.00	
YAK	75.69	346	iPc	45 04.10	-3.1X
	0.9s	2090.00nm		7.2mb	
			iPP	47 55.60	
			iPPP	49 45.00	
			iS	54 46.20	
			eSKS	55 04.60	
			iScS	55 09.00	
BOD	77.40	337	eP	45 14.70	-2.2
	1.0s	1280.00nm		7.0mb	
LSA	77.44	303	eP	45 16.80	-1.5
			S	55 10.10	
KDC	77.62	24	eP	45 18.90	0.9
			e	45 22.10	10km
ZAK	77.93	327	eP	45 18.00	-1.9
	2.0s	4100.00nm		7.2mb	
			iS	55 13.20	
			eSS	00 10.00	
IRK	78.41	329	eP	45 22.00	-0.5
	2.2s	880.00nm		6.4mb	
			ePcP	45 31.50	
			epP	45 37.00	53kmX
			eS	55 10.00	
ILT	79.12	8	iPc	45 25.00	-1.1
	1.5s	1800.00nm		6.9mb	
			iPcP	45 38.00	
			isP	45 44.00	
			iS	55 24.00	
			eScS	55 38.00	
			iSS	00 20.00	
TTA	80.01	19	eP	45 29.10	-2.0
			ic	45 32.30	10km
			id	45 35.90	
SPA	80.07	180	iPc	45 31.30	-0.2
	1.1s	202.38nm		6.0mb	
	Z 20s	63.78um		7.0Msz	
PMR	81.44	22	eP	45 36.20	-2.4
	1.3s	122.60nm		5.8mb	
	Z 22s	330.00um		7.6Msz	
			i	45 39.20	10km
			id	45 43.20	
PKI	81.61	300	eP	45 38.60	-2.1
KKN	81.78	300	eP	45 39.60	-1.8
DMN	81.88	300	eP	45 40.40	-1.6
IMA	82.97	17	eP	45 44.80	-1.8
			ic	45 47.60	9km
			i	45 51.30	
MAW	83.72	202	eP	45 51.00	0.7
COL	84.02	20	iP	45 49.20	-2.6
	0.7s	22.26nm		5.5mb X	
			i	45 52.00	9km
			eS	56 24.00	
FBA	84.02	20	eP	45 49.00	-2.8
PCA	84.09	26	eP	45 51.80	-0.6
			i	45 54.10	7km
			e	45 57.10	
TIK	84.13	350	eP	45 51.00	-1.2
	2.0s	3940.00nm		7.3mb	
			esP	46 12.50	
			eSKS	56 04.00	
			eS	56 10.00	
WMQ	84.72	316	eP	45 55.00	-0.9
			S	56 20.00	
KOD	84.98	281	eP	45 56.00	-2.0
HYB	85.36	288	eP	45 59.00	-0.5
	1.0s	550.00nm		6.7mb	
GBA	85.66	285	Pc	45 59.50	-1.4
	1.2s	135.70nm		6.0mb	
FHC	85.73	47	eP	46 00.50	-0.4

TABLE 4-196

07d 21h

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BRW     85.99  13 eP     46 00.50  -1.0
                ic     46 03.30   9km
                id     46 07.10
BKS     86.21  51 eP     46 02.70  -0.7
        0.8s   440.00nm          6.7mb
      N  20s   167.00um
      E  20s   200.00um
                e      47 22.20 339kmX
                e      49 17.50
                ePP    49 32.00
                e      55 15.00
                eS     56 42.00
                e      56 52.00
                eScS   57 06.00
                e      57 44.00
                ePPS   57 52.00
                e      58 13.00
                eSS    01 30.00
                e      04 37.10
                eSSS   05 58.00
MHC     86.52  51 eP     46 04.20  -0.9
                eS     56 45.00
SAO     86.53  52 eP     46 03.40  -1.5
PHC     86.59  37 eP     46 08.50   3.6X
WDC     86.72  48 iPc    46 04.80  -1.0
                eS     56 43.50
                eP'P'  12 38.00
PRI     86.97  53 iPc    46 06.60  -0.7
                eS     56 51.00
SYP     87.12  54 eP     46 09.00   1.0
                e      49 40.00
COR     87.31  44 iPc    46 10.00   1.5
MIN     87.34  48 eP     46 07.00  -2.0
JAS     87.60  51 iPc    46 08.80  -1.3
                ePP    49 35.00
                eS     56 58.00
                ePKKP  04 56.00
                eP'P'  12 34.00
FRI     87.93  52 iPc    46 10.40  -1.3
                eS     56 57.50
PGC     88.39  40 eP     46 12.80  -0.8
PAS     88.48  55 iP     46 13.00  -1.4
        2.0s  3600.00nm          7.3mb
                ePP    49 51.00
                iS     56 54.00
ISA     88.59  54 eP     46 13.00  -2.0
                e      46 24.00  35kmX
MWC     88.59  55 eP     46 13.00  -2.2
                e      46 21.00  25kmX
                e      49 50.00
ELT     88.67 325 iPc    46 13.80  -1.0
        1.8s  1820.00nm          7.1mb
SBB     88.88  55 eP     46 15.00  -1.4
SLBC    88.96  56 eP     46 19.00   2.3
CWC     89.07  53 eP     46 17.00  -0.4
                e      46 21.00  13km
RVR     89.09  55 eP     46 16.00  -1.3
                e      46 27.00  35kmX
PLM     89.37  56 eP     46 17.00  -1.9
                e      46 28.00  35kmX
MNA     89.46  51 iPc    46 18.00  -1.2
GSC     89.83  54 eP     46 19.00  -1.9
                e      50 01.00
POO     89.97 289 iPd    46 23.40   1.6
        0.9s    30.25nm          5.5mb X
BMN     90.61  49 P      46 23.70  -0.8
      Z  20s   174.80um          7.5Msz
INK     90.64  20 eP     46 23.00  -0.8
        1.0s   304.00nm          6.5mb
NVS     90.83 326 iPc    46 24.00  -0.9
        2.1s   720.00nm          6.6mb
                iSKS   56 52.00
PRZ     90.89 313 eP     46 28.40   2.7
        1.6s  2400.00nm          7.3mb
      Z  24s   204.00um          7.5MszX
      E  24s   187.00um
                eSKS   56 55.00
PNT     91.00  40 eP     46 24.50  -1.4
        1.0s   602.00nm          6.9mb
EUR     91.35  50 i(P)   46 27.00  -1.0
        0.6s    20.77nm          5.7mb
SEM     91.46 321 ePc    46 26.40  -1.5
        1.8s  1980.00nm          7.2mb
                ePP    50 06.80
                eSKS   56 51.10
                eS     57 26.60
                e      03 33.30
KSH     92.06 310 Pc     46 33.00   1.9
AAA     92.10 313 iPc    46 34.80   3.7X
        5.4s     6.40nm          4.2mb X
      Z  21s   108.00um          7.3Msz
      N  21s    95.00um
      E  21s    12.80um
                iSKS   57 01.20
                i      03 41.20
NEW     92.37  42 eP     46 31.00  -1.2
        1.2s   645.00nm          6.9mb
NRN     92.43 311 eP     46 32.80  -0.2
                eSKS   57 04.00
NRI     93.20 340 iPc    46 32.80  -2.7
        1.8s   400.00nm          6.5mb
                iPP    50 19.00
                iSKS   57 08.00
                iS     57 41.00
                ePS    58 59.00
                e      03 59.00
LHD     93.39  42 iPc    46 37.70   0.7
LDM     93.58  42 iPc    46 38.70   0.9
FRU     93.70 313 eP     46 38.00  -0.5
        2.0s  1260.00nm          7.0mb
      Z  19s   120.00um          7.4Msz
      E  19s   131.00um
                iS     57 47.00
                i      04 07.00
BUT     95.01  44 ePc    46 45.90   1.3
ANR     95.02 310 eP     46 46.80   2.2
        2.5s   930.00nm          6.8mb
      Z  20s    80.00um          7.2Msz
      E  20s   130.00um
                ePP    50 38.00
                eSKS   57 17.00
                eS     57 51.00
                eSP    59 11.00
LRM     95.05  45 ePc    46 43.70  -1.2
KHO     95.17 307 iPc    46 45.40  -0.2
        6.6s  3300.00nm          6.9mb X
GAR     96.33 308 eP     46 51.90   1.2
        2.4s   700.00nm          6.8mb
                eS     57 52.50
RSNT    96.45  28 P      46 48.60  -1.9
        1.1s   378.00nm          6.8mb
YKC     96.50  28 eP     46 48.00  -2.8
        0.9s   372.00nm          6.9mb
KUL     96.63 307 eP     46 51.10  -0.9
        3.1s  3700.00nm          7.4mb X
                iPP    50 52.10
                iSKS   57 24.30
NVL     96.66 190 eP     46 53.00   1.4
        1.8s   320.00nm          6.6mb
                eSKS   57 34.00
                eS     58 10.00
                eSP    59 36.00
                eSPP   00 25.00
BDW     96.67  48 P      46 50.00  -2.3
        1.1s   261.00nm          6.7mb
MBC     97.31  14 eP     46 52.00  -2.2
        0.8s   119.00nm          6.5mb
TAS     97.40 311 eP     46 56.20   0.9
        2.0s  1000.00nm          7.1mb
      Z  22s   160.00um          7.5Msz
      N  18s    57.00um
      E  21s   162.00um
                ePP    50 55.20
                ePPP   52 55.20
                eSKS   57 24.20
                eS     58 06.20
                eSPP   00 12.20
QUE     97.98 299 iPc    47 00.00   1.6
                eS     57 47.00
ALQ     98.14  56 iPc+   46 58.00  -1.1
        1.0s   151.25nm          6.6mb
      Z  22s   240.74um          7.6Msz
SAM     98.97 309 eP     47 03.00   0.5
        5.5s  2400.00nm          7.1mb X
      Z  24s   210.00um          7.6MszX
      E  20s   100.00um
GOL     99.48  51 e(P)   47 03.00  -2.2
      Z  20s   300.00um          7.8Msz
PCR    100.04 246 ePdiff47 12.00   3.8X
RSSD   100.81  47 Pdiff 47 10.10  -0.9
KHE    101.82 351 ePdiff47 16.40   1.9
      Z  19s   130.00um          7.5Msz
                iSKS   57 53.00
                eS     58 48.00
                e      05 57.00
FFC    102.45  36 ePdiff47 19.00   1.3
III    102.55  73 Pdiff 47 29.00   9.7X
IIC    102.90  72 Pdiff 47 30.00   9.0X
IIM    102.93  72 Pdiff 47 30.60   9.5X
IIP    103.18  72 Pdiff 47 36.00  13.8X
JCT    103.33  61 ePdiff47 24.00   1.6
        1.0s    55.00nm          6.3mb
      Z  20s   113.48um          7.4Msz
SVE    103.69 326 ePdiff47 21.00  -2.2
        5.0s  2300.00nm          7.2mb X
      Z  20s   230.00um          7.7Msz
      N  20s    36.00um
      E  20s   183.00um
                ePP    53 46.00
                eS     59 00.00
                ePS    00 46.00
                e      06 22.00
IIT    103.72  73 Pdiff 47 35.00  10.4X
ACO    104.20  55 ePdiff47 29.60   3.6X
        0.8s    37.50nm          6.3mb
MHI    104.67 305 ePdiff47 30.00   1.7
                e      50 48.00
                eS     01 19.00
ARU    104.84 326 ePdiff47 29.00   0.7
        2.8s   400.00nm          6.8mb
      Z  22s   138.00um          7.5Msz
      N  20s    58.00um
      E  22s   112.00um
                ePP    51 51.50
                eSKS   58 08.00
                eS     59 04.00
                ePS    01 06.00
ATX    104.99  61 Pdiff 47 30.00   0.3
                PP     52 00.00
KHI    105.30 303 e(Pdif47 30.50  -0.7
ALE    105.43   5 ePdiff47 31.00   0.5
        1.5s   159.00nm          6.8mb
ASH    105.62 307 ePdiff47 34.00   1.7
                ePP    52 03.00
                ePPP   54 15.50
                eSPP   01 54.00
VAN    105.81 307 ePdiff47 34.60   1.4
      Z  22s   130.00um          7.4Msz
                ePP    51 54.00
                ePPP   54 08.00
                eSKS   58 14.00
                eS     59 16.00
                ePS    01 08.00
FCC    106.49  32 ePdiff47 36.00   0.4
TUL    106.89  56 ePdiff47 45.70   7.7X
        1.0s    31.50nm          6.3mb
      Z  21s   260.40um          7.8Msz
KAT    107.24 308 ePdiff47 43.00   3.5X
        6.0s  2000.00nm          7.3mb X
      Z  17s    39.00um          7.0MszX
      N  17s    44.00um
      E  17s    68.00um
                ePP    52 15.00
                iSKS   58 21.00
BHO    107.64  57 ePdiff47 52.50  11.1X
KBS    109.38 354 iPdiff48 00.00  11.9X
LHC    110.84  42 ePdiff48 05.00   9.7X
LHC    110.84  42 ePKP  52 10.00  14.8X
        2.2s   853.00nm
LPS    112.00  79 ePdiff48 04.00   2.7X
                e      52 46.50
BAK    112.07 309 iPdiff48 16.00  15.1X
APA    112.81 341 ePdiff48 09.20   5.6X
APA    112.81 341 ePKPc 52 01.80   3.5X
      Z  21s   179.00um          7.6Msz
      N  21s    39.00um
      E  22s   114.00um
                iPP    52 44.00
                eSKS   58 38.00
                iPS    02 17.00
                ePPS   03 27.00
                i      08 28.00
DAG    113.25 360 iPdiff48 16.00  10.7X
                i      52 35.00
                iS     00 29.00
KEV    113.43 344 ePdiff48 15.00   8.8X
KEV    113.43 344 iPKP  52 03.10   3.6X
                ePP    52 44.00
                epPPP  55 44.00
                ePS    02 16.00
                iPKKP  02 51.00
```

TABLE 4-197

07d 21h

```
KRV   114.74 310 iPdiff48 22.00   9.2X
                 iPP   53 09.00
GRO   114.79 313 ePdiff48 10.00  -2.9X
GRO   114.79 313 ePKP  52 03.00   0.1
      Z  26s   171.00um          7.5MszX
      N  18s   150.00um
      E  18s    22.00um
                 iPP   53 05.00
KER   114.84 303 e(Pdif48 15.00   1.4
GRS   114.90 309 ePdiff48 15.40   1.6
       6.0s  1060.00nm
                 iPP   53 05.00
SOD   115.03 342 iPdiff48 21.60   8.2X
                 i     51 57.40
                 iPKKP 02 34.00
SOD   115.03 342 iPKP  51 57.40  -5.3X
TAB   115.09 307 ePdiff48 16.00   1.4
TAB   115.09 307 e(PKP)52 15.00  11.1X
TRO   115.57 346 ePKP  52 03.80   0.2
MTA   115.72 311 iPdiff48 24.80   7.7X
AAM   115.75  48 ePdiff48 20.00   2.7X
FRB   116.22  22 ePKP  52 06.00   1.0
FRB   116.22  22 ePdiff48 24.00   5.2X
MOS   116.39 328 ePKP  52 05.00  -0.6
                 epPKP 52 16.00
                 iPP   53 21.00
                 eSKS  58 50.00
MOS   116.39 328 ePdiff48 30.00  10.3X
       2.0s   200.00nm
PYA   116.53 314 iPdiff48 31.30  10.6X
       1.3s   260.00nm
                 ePP   53 20.00
LEN   116.58 311 ePKP  52 06.00  -0.7
LEN   116.58 311 ePdiff48 25.00   3.8X
       4.0s  2700.00nm
KJF   116.60 339 iPdiff48 28.00   7.5X
       1.0s    30.00nm
                 i     48 32.00
                 i     52 06.10
                 ePP   53 20.00
                 esPP  53 56.00
                 epPPP 56 20.00
                 eSKS  58 52.00
                 eS    01 12.00
                 ePKKP 02 34.00
                 ePS   02 52.00
BKR   116.66 312 ePdiff48 26.00   4.5X
      Z  24s   134.00um          7.5MszX
                 iPP   53 10.00
GDH   116.88  13 ePdiff48 26.00   4.4X
OBN   117.15 328 ePdiff48 24.00   0.9
       1.7s   130.00nm
      Z  20s   147.00um          7.6Msz
      N  20s   105.00um
      E  20s   126.00um
                 ePPP  55 48.00
                 iSKS  59 00.00
                 eSS   09 16.00
BHD   117.20 302 ePKPd 52 08.00   0.2
                 ePP   53 23.00
                 e     54 58.00
                 e     55 56.00
                 eS    58 35.00
                 e     00 59.00
ELF   117.27  46 PKP   52 08.35   0.7
LDN   117.39  47 PKP   52 08.35   0.4
MSL   117.83 306 iPKP  52 20.50  11.5X
                 i     53 27.00
                 e     00 05.00
MSL   117.83 306 ePdiff48 31.00   4.4X
SUF   118.05 338 ePKP  52 06.00  -2.5
SUF   118.05 338 ePdiff48 35.00   8.0X
PUL   118.05 334 ePKP  52 11.00   2.4
      Z  20s   120.00um          7.5Msz
      N  20s    80.00um
      E  20s   105.00um
                 ePP   53 27.00
                 eSKS  59 09.00
                 e     09 40.00
SOC   118.98 314 ePdiff48 32.00   0.4
BLA   119.10  53 ePKP  52 20.80   9.4X
                 PP    53 35.00
VCA   119.25 131 e(PKP)52 15.00   2.9X
NUR   119.96 337 iPKP  52 14.00   1.8
       1.0s    68.00nm
ANT   120.04 125 ePdiff48 41.00   4.3X
TCA   120.40 135 e(PKP)52 09.00  -5.1X
OTT   120.57  43 ePKP  52 15.50   1.6
       0.9s   176.00nm
                 pP    52 24.00
SEK   120.61 229 iPKPd 52 16.50   1.8
       0.6s    76.67nm
UPA   120.87  85 e(PKP)52 16.00   0.7
      Z  20s    22.34um          6.8Msz
      N  20s    13.48um
      E  20s    12.41um
                 i     52 28.50
                 i     53 51.50
BLF   121.23 227 ePKP  52 14.50  -1.4
       0.8s    68.75nm
                 i     52 32.00
VIR   121.31 228 ePKP  52 17.00   1.0
       1.0s    80.00nm
BPI   121.45 231 ePKP  52 16.50   0.1
PSO   121.89  95 ePKP  52 18.50   0.6
MNT   121.93  42 iPKPc 52 18.00   1.6
       1.3s   218.00nm
BFS   122.01 230 ePKP  52 16.20  -1.2
       0.9s    50.42nm
ARE   122.26 117 ePKP  52 22.00   3.7X
KVT   122.27 312 ePKP  52 27.00   9.7X
FSA   122.31 129 ePKPc 52 19.00   1.3
MNK   122.41 329 ePKP  52 20.00   3.0X
                 ePP   53 52.00
                 ePPP  56 34.00
                 eSKS  59 09.00
                 ePS   03 38.00
                 e     10 36.00
MNK   122.41 329 ePdiff48 55.00   8.5X
LPA   122.42 143 ePKP+ 52 18.00   0.3
      Z  20s    97.16um          7.5Msz
                 iPP   53 54.00
SIM   122.42 317 ePdiff49 04.00  17.1X
      Z  26s   166.00um          7.6MszX
      N  28s    89.00um
      E  28s   269.00um
                 ePP   53 52.00
                 eSKS  59 16.00
                 eSPP  05 08.00
                 e     10 44.00
KSR   122.48 231 iPKPc 52 20.70   2.3
       0.9s    16.15nm
MTD   122.89 243 iPKPd 52 21.00   1.8
                 ipPKP 52 33.00
                 iPKKP 02 25.00
SUR   122.92 221 e(PKP)52 29.20  10.2X
       1.2s   140.63nm
      Z  18s    88.83um          7.5Msz
UPP   123.03 339 iPKP  52 17.80  -0.3
                 i     54 03.00
                 i     05 13.70
PAL   123.15  47 Pdiff 48 56.00   5.8X
SLA   123.42 128 e(PKP)52 22.00   1.8
BUL   123.96 238 iPKPd 52 23.00   1.6
      Z  21s   296.06um          7.9Msz
      N  21s   146.95um
      E  21s   222.22um
                 ipPKP 52 36.00
                 iPP   54 16.00
                 iPKKP 02 17.00
HFS   124.18 341 (PKP) 52 20.40   0.0
       0.7s    39.00nm
NB2   124.24 342 PKP   52 20.60   0.0
       0.9s    79.10nm
HJA   124.28 127 e(PKP)52 20.00  -1.7
AKU   124.38 359 iPKP  52 22.20   1.6
       1.6s   506.67nm
YJA   124.74 126 e(PKP)52 25.00   1.8
MGI   124.77 303 ePKP  52 36.00  13.6X
KIS   124.98 321 ePKP  52 21.00  -1.3
       1.8s   200.00nm
      Z  26s   115.00um          7.4MszX
      E  26s    98.00um
                 ipPKP 52 33.00
                 iPP   54 10.00
                 iSKS  59 34.00
JER   125.09 302 ePKP  52 35.50  12.4X
LPB   125.19 118 ePKP  52 25.00   0.9
                 SKS   59 32.00
LPB   125.19 118 Pdiff+49 06.00   5.5X
KDE   125.52 314 ePKP  52 30.00   6.4X
BOG   125.69  91 ePdiff49 06.00   3.3X
                 ePP   52 25.50
IAS   125.70 322 ePKP  52 25.00   1.3
KONO  125.84 342 ePKP  52 25.40   1.8
REY   125.92   1 iPKP  52 24.70   1.1
PPE   126.11 321 ePKP  52 27.00   2.4
CFR   126.23 320 ePKPc 52 27.00   2.2
BER   126.41 345 ePKP  52 28.00   3.3X
LVV   126.43 326 iPKP  52 25.20   0.1
                 ePP   54 16.00
                 eSKS  59 22.00
                 ePS   04 21.00
                 e     11 37.00
TLB   126.56 319 ePKPc 52 28.00   2.6X
ODB   126.66 321 ePKP  52 44.00  18.4X
GPA   126.66 313 ePKP  52 28.10   2.2
VRI   126.82 321 ePKP  52 28.00   2.0
CVO   127.19 321 ePKPc 52 29.00   2.3
ISR   127.27 320 ePKPc 52 30.00   3.1X
ISK   127.27 315 ePKP  52 26.00  -0.9
BCK   127.38 310 ePKP  52 28.00   0.6
MLR   127.48 321 ePKP  52 28.00   0.6
DMK   127.88 316 ePKP  52 27.60  -0.5
MSR   127.91 322 ePKP  52 30.00   1.9
BUC1  127.95 319 ePKP  52 35.00   6.9X
COP   127.99 338 ePKP- 52 35.00   7.2X
      Z  20s    17.73um          6.7Msz
                 i     54 36.00
UZH   128.03 326 iPKP  52 29.40   1.3
       2.1s  1450.00nm
      Z  20s   120.00um          7.6Msz
                 ipPKP 52 40.00
                 iPP   54 27.50
                 iSKS  59 30.00
KCT   128.07 314 iPKP  52 29.20   0.7
DST   128.11 313 iPKPc 52 29.10   0.4
ELL   128.12 309 iPKPc 52 39.50  10.6X
CMP   128.15 321 ePKPc 52 33.00   4.4X
CJR   128.31 323 ePKP  52 31.80   3.0X
EDC   128.38 314 iPKP  52 29.80   0.7
KRA   128.47 328 ePKP  52 27.70  -1.2
       1.8s   227.00nm
      Z  18s    98.50um          7.5Msz
                 e     52 31.40
                 e     52 39.90
                 e     52 48.40
                 e     54 35.00
                 e     01 47.00
KRA   128.47 328 ePdiff49 24.40  10.8X
MUD   128.54 340 iPKP  52 36.20   7.4X
       1.0s    72.00nm
HLW   128.72 300 ePKP  52 30.00   0.0
                 eS    54 42.00
SPC   128.82 327 ePKP  52 30.40   0.5
                 i     52 42.40
                 iPP   54 43.00
DRA   128.92 321 ePKP  52 33.00   3.0X
JOS   129.07 327 ePKP  52 30.00  -0.1
UAV   129.08  87 ePKP  52 35.00   3.6X
YER   129.23 310 iPKP  52 32.20   1.3
IZM   129.54 312 ePKP  52 32.00   0.6
SDV   129.61  87 e(PKP)52 30.20  -2.2
SDV   129.61  87 iPKPc 52 34.30   1.9
       0.7s    57.10nm
EZN   129.67 314 ePKPd 52 31.30  -0.2
PSZ   129.75 326 e(PKP)52 32.00   0.4
KSP   129.78 331 ePKP  52 28.50  -2.9X
       1.8s   544.00nm
                 i     52 33.00
                 i     54 43.00
BRN   130.08 334 ePKP  52 32.00   0.1
TIM   130.22 323 iPKP  52 32.40   0.0
BUD   130.49 326 ePKPd 52 34.00   1.2
TOV   130.52  86 ePKP  52 29.50  -4.5X
HAM   130.62 337 iPKP  52 44.50  11.6X
SRO   130.67 327 ePKP  52 37.20   4.0X
                 e     53 14.00
                 e     54 46.00
BRG   130.85 332 ePKP  52 26.60  -6.8X
      Z  20s   115.00um          7.6Msz
                 i     52 35.30
                 i     52 44.60
                 e     53 01.00
                 iSKP  55 58.50
                 iPKS  56 10.00
CLL   130.96 333 ePKP  52 26.00  -7.6X
CLL   130.96 333 iPKP  52 35.30   1.7
                 eSKP  55 58.00
ZST   131.08 328 ePKP  52 33.00  -1.0
                 i     52 37.00
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                ePP   54 44.00
                e     01 09.50
                eS    16 00.00
ITB7  131.43 137 e(PKP)52 40.70   5.3X
VKA   131.44 329 ePKP  52 35.80   1.1
                i     52 52.00
                i     53 42.20
                e     54 04.60
                iPP   55 00.30
                i     55 38.80
                i     56 02.40
VAY   131.61 318 ePKP  52 34.30  -0.9
SKO   132.04 319 iPKP  52 37.00   1.0
       1.8s   1200.00nm
                i     52 46.40
                i     56 04.00
                i     12 04.00
MOX   132.05 334 ePKP  52 33.00  -2.8X
       2.0s    529.00nm
                i     52 38.00
                i     52 47.50
                i     53 10.00
                iPP   54 58.00
                iPKS  56 10.00
                e     57 00.00
                eSS   12 50.00
HOF   132.17 333 iPKPc 52 38.60   2.6X
KHC   132.23 331 ePKP  52 25.50 -10.7X
       1.5s    437.00nm
     N  25s     59.60um
     E  24s     53.50um
                e     52 38.00
                e     52 47.00
                e     55 06.00
ATH   132.28 313 ePKP  52 40.00   3.4X
WIT   132.34 339 e(PKP)52 39.50   3.3X
                e     52 49.00
                ePP   55 08.00
KMR   132.69 330 PKP-  52 39.00   2.0
OHR   132.88 318 iPKP  52 35.50  -2.2
                i     56 05.00
GRF   132.92 333 ePKP  52 38.00   0.6
     Z  22s    155.00um          7.7Msz
WTS   132.95 338 ePKP  52 36.50  -0.9
                e     52 40.00
                e     52 50.00
                e     54 43.50
                ePP   55 05.00
ZAG   133.16 326 ePKP  52 36.00  -2.0
                ePKS  56 00.00
TTG   133.19 321 ePKP  52 39.00   0.9
STJ   133.23  31 ePKP  52 47.50   9.5X
CAR   133.38  85 ePdiff49 40.00   3.4X
                iPP   52 38.00
DBN   133.45 339 e(PKP)52 32.00  -6.3X
     Z  24s     77.00um          7.3MszX
                e     53 20.00
                ePKS  56 00.00
BNS   133.64 337 iPKPc 52 43.70   5.0X
       1.7s    400.00nm
TNS   133.71 335 ePKP  52 41.00   2.0
                ePP   55 16.00
LJU   133.80 327 ePKP  52 37.00  -2.2
                i     52 51.10
                e     53 10.10
                eS    56 12.20
FUR   133.99 332 iPKPc 52 42.10   2.5X
     Z  23s    227.00um          7.8MszX
RBL   134.05 328 ePKP  52 44.50   4.7X
CEY   134.06 327 ePKP  52 39.30  -0.5
                i     52 51.90
                eS    56 13.20
SJG   134.16  75 ePKP  52 33.00  -7.7X
       1.2s    359.38nm
     Z  18s     27.49um          7.0Msz
ENN   134.27 338 ePKP  52 40.50   0.6
                e     52 42.50
                e     52 51.00
                e     53 08.00
                ePP   55 10.00
TRI   134.43 327 iPKP  52 41.90   1.5
                i     54 29.00
                i(PP) 55 16.10
                i(PKS)56 17.90
                i     57 13.10
UCC   134.82 339 PKP   52 34.50  -6.5X
                e     52 46.00
                e     55 10.50
BUH   134.99 334 ePKPd 52 40.40  -1.1
GWF   135.01 335 ePKP  52 41.50   0.0
DMU   135.06 349 ePKP  52 34.80  -6.5X
       1.2s    280.00nm
LCI   135.13 319 ePKP  52 51.00   9.1X
                ePP   55 24.50
CTI   135.30 329 ePKP  52 48.00   5.8X
                ePP   55 24.00
DOU   135.31 338 PKP   52 37.40  -4.5X
                e     52 46.40
                e     55 13.50
                e     56 26.00
                e     06 24.00
BRT   135.32 320 ePKP  52 48.00   5.8X
                ePP   55 26.00
DDK   135.45 349 ePKP  52 39.00  -3.1X
       1.0s    145.00nm
DLE   135.58 349 ePKP  52 39.00  -3.3X
       1.2s    280.00nm
CDF   135.59 335 ePKP  52 35.90  -6.8X
       1.4s    156.80nm
ECH   135.80 334 ePKP  52 43.00   0.0
FOG   136.03 322 iPKPd 52 52.00   8.4X
BAF   136.16 334 ePKP  52 43.00  -0.8
SAL   136.17 329 ePKP  52 50.00   6.3X
BSF   136.25 334 ePKP  52 37.50  -6.5X
ORI   136.26 319 ePKP  52 46.00   2.0
                iPP   55 35.50
HAU   136.30 335 ePKP  52 37.80  -6.1X
       1.3s    173.20nm
DUI   136.57 322 ePKP  52 51.50   6.9X
                ePP   00 00.00
SGO   136.70 321 ePKP  52 53.50   8.7X
                iPP   55 33.00
SGG   136.78 322 ePKP  52 44.50  -0.6
                e     55 34.00
POI   136.90 325 ePKP  52 45.00  -0.2
FIR   137.05 327 ePKP  52 39.00  -6.4X
MNS   137.17 324 ePKP  52 43.50  -2.2
VG1   137.36 330 ePKP  52 47.50   1.5
                iPP   55 32.50
ORO   137.39 331 ePKP  52 40.00  -6.2X
VAL   137.50 352 PKP   52 53.00   7.0X
RMP   137.52 324 ePKP  52 47.00   0.6
                i     55 42.00
RDP   137.54 324 ePKP  52 47.50   0.9
                ePP   55 46.50
VAO   137.60 141 ePKP  52 47.40   0.2
                e     52 55.30
                e     53 10.70
LOR   137.90 336 ePKP  52 41.00  -6.0X
LBF   138.09 336 ePKP  52 41.30  -6.1X
GRC   138.19 337 iPKPc 52 46.60  -0.9
                i     52 48.70
                i     56 26.40
FLN   138.20 341 ePKP  52 42.70  -4.7X
SSF   138.21 336 ePKP  52 41.70  -5.9X
LDF   138.23 341 ePKP  52 42.90  -4.6X
       1.2s    101.10nm
BPA   138.32  76 ePKP  52 42.00  -6.6X
SMF   138.42 336 ePKP  52 42.20  -5.8X
AVF   138.49 336 ePKP  52 42.00  -6.1X
GRR   138.64 341 ePKP  52 44.00  -4.3X
SEG   138.69  77 ePKP  52 49.00  -0.2
MDN   138.85  78 ePKP  52 49.00  -0.5
MGG   138.90  77 ePKP  52 49.50  -0.1
LPF   139.02 341 ePKP  52 44.80  -4.1X
CVF   139.15 328 ePKP  52 43.20  -6.2X
MZF   139.27 336 ePKP  52 43.10  -6.4X
TCF   139.36 337 ePKP  52 43.80  -5.9X
BMA   139.53 144 ePKP  52 49.40  -1.3
                e     53 01.20
                e     53 44.40
FRF   139.56 330 ePKP  52 44.00  -6.1X
       1.3s    187.70nm
LSF   139.65 337 ePKP  52 44.00  -6.2X
LRG   139.78 331 ePKP  52 44.90  -5.5X
LMR   139.80 330 ePKP  52 44.60  -5.9X
ERC   139.87 319 ePKP  53 03.00  12.2X
CDR   139.90 331 ePKPc 52 51.10   0.4
MFF   139.96 339 ePKP  52 45.10  -5.6X
RJF   140.44 337 ePKP  52 45.30  -6.3X
       1.5s    274.70nm
CAF   140.54 336 ePKP  52 45.10  -6.8X
LFF   141.05 337 ePKP  52 46.20  -6.5X
LPO   141.09 336 ePKP  52 46.90  -5.9X
BNG   141.85 264 ePKPc 52 48.00  -7.1X
       1.0s     17.50nm
BAO   142.01 132 iPKPc 52 48.00  -7.4X
MLS   142.56 335 ePKP  52 53.90  -1.6
ISSF  143.26 337 ePKP  52 55.10  -1.7
LGR   144.39 338 iPKP  53 00.00   1.4
                iPKKP 53 10.00
                iPP   56 27.50
SET   145.48 323 ePKP  53 00.00  -0.8
ABA   146.41 326 ePKP  53 01.00  -1.2
ALI   147.00 332 iPKP- 53 01.00  -2.0
TOL   147.21 338 iPKP+ 53 05.00   1.6
                iPKKP 53 17.50
                i     53 45.00
                i     55 35.00
                i     56 26.00
                iPP   56 41.00
                i     57 15.00
                iSKS  00 46.00
                i     02 08.00
                eSKKS 03 19.00
                iPS   07 12.00
                i     08 37.00
                iSS   15 37.00
                iSSS  21 06.00
PTO   147.52 345 ePKP  53 05.40   1.7
MTE   147.90 343 ePKPc 53 07.60   3.1X
COI   148.34 344 ePKP  53 10.00   4.9X
PRL   148.85 342 ePKPc 53 12.00   5.9X
ALM   149.13 333 iPKPd 53 10.60   4.1X
       1.8s     11.20nm
     N  43s      2.00um
     E  41s      5.00um
                i     56 09.80
                i     03 19.20
CRT   149.34 335 iPKP  53 10.60   3.7X
MTH   149.77 344 ePKPc 53 15.00   7.6X
LIS   149.93 344 iPKPd 53 12.30   4.7X
MAL   150.08 335 iPKP+ 53 06.00  -1.9
                iPKKP 53 15.00
                iPP   57 24.00
                iPS   07 02.00
ALR   150.14 332 iPKP  53 17.00   9.0X
                i     53 24.50
                i     53 35.00
SFS   151.02 337 iPKPc 53 12.00   2.7X
                i     53 40.00
                i     53 58.00
                i     55 10.00
                iPP   56 24.00
                eSKS  00 10.00
                ePS   07 05.00
                eSS   15 15.00
                eSSS  20 10.00
FAR   151.14 341 ePKP  53 18.50   9.0X
SOB1  151.43 131 ePKP  53 10.10  -0.5
                e     53 18.20
TAM   152.87 301 iPKP  53 11.00  -1.6
ITR   153.52 134 ePKP  53 11.20  -2.4
                e     53 22.50
FUL   157.34 354 ePKP  53 20.00   1.9
TEN   161.37 351 PKP   53 31.50   8.9X
                e     54 10.80
                PP    57 58.70
MBO   174.96 330 iPKPc 53 34.10   2.2
     S.D. = 1.4  on 376 of 548 obs.

   MAR  05, 1984  03h 33m 50.85± 0.05s
    8.148 N ± 1.0km  123.775 E ± 1.2km
    DEPTH = 646.1 ±  0.6 km
    6.6mb ( 99 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)
       Felt (II RF) on Mindanao, Leyte
       and Panay.

CGP     0.96  71 iPc   35 07.50  -0.4
DAV     2.07 120 iPd-  35 11.50   0.4
PLP     3.22  22 iPd   35 13.00  -2.3
PDP     3.91 335 iPc   35 23.20   3.8X
                iS    35 46.50
PPR     5.24 288 iPd   35 31.90   3.2X
                iS    36 29.60
PGP     6.00 333 iPc   35 35.00   0.3
MNI     6.74 171 iPc   35 41.30   0.4
                eS    36 45.00
OCP     6.97 338 iP    35 25.00 -17.9X
MAN     6.99 338 iPd   35 44.00   0.9
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KKM	7.79	255	iPd	35	50.30	0.1
BAG	8.79	339	iPc+	36	00.00	0.6
SZP	9.89	341	iPc	36	09.00	-0.5
BKB	11.65	217	iPd	36	28.60	2.4
	1.0s	9814.70nm				6.8mb
AAI	12.56	159	iPc	36	38.20	3.3X
MKS	13.95	198	iPc	36	49.80	1.5
	1.0s	********nm				7.7mb X
TWG	14.82	350	iPc	36	55.90	-0.6
			eS	37	09.00	
TWF1	15.30	351	iPc	37	00.10	-1.0
TWK	15.36	349	iPc	37	02.40	0.7
ISI	16.10	1	iPd	37	10.10	1.5
			iS	39	48.20	
TLE	16.36	147	iPc	37	07.10	-4.0X
MYK	16.61	5	eP	37	15.00	1.7
			eS	39	52.00	
HKC	16.84	328	iP	37	16.30	0.8
			iS	39	36.00	
ANP	17.08	353	iP-	37	16.00	-1.8
			iS	39	36.00	
QIZ	17.32	310	iPc	37	20.80	0.8
QZH	17.42	344	iPc	37	21.50	0.6
			sP	39	25.00	
GZH	17.91	327	iPc	37	26.30	0.9
WSI	18.06	191	ePc	37	25.00	-1.9
			eS	38	20.00	
KUPT	18.18	181	iPc	37	27.90	0.0
KUG	18.19	181	iPc	37	27.90	-0.1
			e	40	26.70	
			e	44	04.20	
			e	47	41.20	
KMJ	18.32	9	iPd	37	30.30	1.2
			S	40	23.20	
NAH	18.35	11	iPd	37	30.60	1.2
			S	40	14.60	
NGO	18.78	12	iPd	37	34.90	1.6
			S	40	22.20	
MVI	18.96	21	iPd	37	35.20	0.2
			S	40	32.50	
TRT	19.27	215	iPc	37	38.70	0.8
			iS	38	18.00	
SJI	19.80	217	ePd	37	42.90	0.1
NZJ	20.83	14	P	37	52.50	0.5
			S	40	40.50	
KGM	21.26	254	iPc	37	56.70	0.8
	0.7s	123.40nm				5.5mb X
			i	38	43.00	
			i	44	09.00	
GUMO	21.40	74	iPd	37	56.60	-0.6
PJG	21.40	74	iPd	37	56.50	-0.7
			i	58	13.00	
GUA	21.43	74	ePd	37	56.60	-0.9
	0.9s	2789.92nm				6.7mb
			i	40	32.00	
TZZ	21.92	127	iPc	38	02.50	0.5
MTN	22.10	161	iPc	38	02.00	-1.5
TNG	22.23	231	iPc	38	03.30	-1.4
KLM	22.58	258	iP	38	09.00	1.2
	0.6s	212.40nm				5.9mb
			iS	41	04.40	
PCT	22.85	289	iPc	38	11.80	1.6
			e	41	34.10	
			e	44	14.00	
			e	59	49.00	
KLI	22.87	236	ePc	38	09.80	-0.6
			eS	41	28.80	
IPM	22.88	262	ePc	38	10.80	0.3
			i	38	31.80	
			e	39	10.40	
			i	39	39.80	
			e	40	23.80	
			iS	41	35.30	
			i	44	12.30	
SSE	22.96	354	iPd-	38	11.50	0.5
	9.0s	17.00nm				3.6mb X
	E 11s	49.00um				
			sP	40	49.00	
			iS	41	27.00	
			ScS	48	26.00	
SNG	22.97	269	iP	38	12.00	0.7
	1.4s	5116.28nm				6.9mb
			iS	41	38.00	
TAJ	23.46	16	iPd	38	15.90	0.5
			S	41	48.00	
WHN	23.96	340	iPc	38	21.50	1.7
			sP	40	59.00	

NNT	24.05	283	iPc	38	21.80	1.0
KAG	24.15	14	iPd	38	21.30	-0.2
			e	48	09.00	
KSI	24.17	242	iPd	38	22.00	0.2
			iS	42	01.50	
NJ2	24.22	350	Pc	38	23.00	0.9
			sP	41	01.50	
			ScP	44	21.30	
			S	45	01.00	
KNA	24.25	168	iPd	38	22.00	-0.5
NST	24.29	290	eP	38	25.00	2.1
GYA	24.41	320	Pc	38	24.00	0.0
			sP	41	05.00	
			S	42	03.00	
TBL	24.43	119	iPd	38	25.00	0.9
MYZ	24.70	16	eP	38	26.00	-0.3
			eS	42	07.00	
FKJ	24.88	10	Pd	38	28.10	0.2
			S	42	08.90	
NGS	25.11	12	P	38	30.80	0.9
			S	42	13.20	
PSI	25.32	259	ePc	38	32.70	0.8
KUM	25.37	14	Pd	38	31.60	-0.5
			eS	42	07.00	
KHT	25.53	287	iPc	38	35.00	1.3
MOM	25.64	112	iPc	38	35.50	0.8
MDG	25.67	121	ePd	38	33.80	-1.1
CBI	25.67	41	iP	38	33.20	-1.7
			S	41	24.40	
SAG	25.70	13	eP	38	35.00	0.0
BDT	25.77	293	iPc	38	35.50	-0.3
	0.8s	122.00nm				5.6mb X
ASZ	25.91	18	Pd	38	37.20	0.4
			iS	42	24.60	
OIT	26.00	15	ePd	38	37.00	-0.6
			eS	42	03.00	
FKK	26.03	13	Pd	38	37.50	-0.4
			eS	42	07.00	
KMI	26.22	313	iPc+	38	41.00	1.0
	E 12s	80.70um				
			iS	41	35.00	
CHG	26.33	296	iPc+	38	41.80	1.1
	0.6s	150.00nm				5.8mb
			eS	42	46.00	
CHTO	26.33	296	iPc	38	41.80	1.1
IZU	26.42	10	P	38	42.00	0.7
			e	42	32.00	
SHN	26.52	13	Pd	38	41.50	-0.6
			eS	42	30.00	
MRT	26.77	20	Pd	38	44.40	0.1
			e	42	37.00	
KOC	26.84	18	iPd	38	45.60	0.6
			i	42	37.30	
MTY	26.88	17	eP	38	45.00	-0.3
HIR	27.28	16	P	38	48.50	-0.2
			S	42	41.00	
LAT	27.43	122	iPc	38	50.50	0.2
SHK	27.51	16	iPd	38	50.10	-0.6
			eS	42	46.60	
SHJ	27.51	22	Pd	38	50.80	0.1
			S	42	47.20	
TKS	27.65	20	Pd	38	52.30	0.4
			eS	42	52.00	
TKM	27.71	19	eP	38	52.00	-0.5
			eS	42	49.00	
WKY	27.99	20	iPd	38	55.20	0.3
			S	42	58.00	
OKA	28.00	18	iPd	38	55.00	0.0
			eS	42	55.00	
HIM	28.40	19	Pd	38	58.40	0.1
			eS	43	01.00	
KOB	28.42	20	eP	38	59.00	0.5
			e	42	04.00	
MTS	28.48	16	iPd	38	59.20	0.2
			S	43	06.20	
OSK	28.52	21	P	38	59.50	0.1
			eS	43	01.00	
OSA	28.53	21	P	38	59.90	0.5
			S	43	02.90	
TIA	28.59	349	Pd	39	00.20	0.2
			PcP	41	51.10	
			PcS	45	33.20	
			S	46	03.00	
			ScS	48	25.80	
WITU	28.65	116	ePc	39	01.00	0.3
TOT	28.85	18	eP	39	02.00	-0.2
			eS	43	03.00	

KYO	28.90	21	Pd	39	03.00	0.4
			S	43	11.00	
HJJ	28.92	29	eP	39	02.00	-0.8
			eS	43	09.00	
TYK	29.07	19	P	39	04.30	0.2
			e	40	40.00	
PMG	29.09	126	iPc+	39	03.80	-0.7
			eS	43	30.00	
XAN	29.18	334	iPc	39	05.00	-0.1
SAI	29.26	16	P	39	05.70	0.1
			eS	43	12.00	
HIK	29.32	21	Pd	39	06.40	0.2
			S	43	15.10	
CD2	29.37	323	iPc	39	07.60	0.9
HMM	29.38	24	Pd	39	07.00	0.3
			e	43	15.00	
SEO	29.43	5	iPd-	39	07.40	0.3
	1.0s	2600.00nm				6.8mb
			S	43	22.50	
NAG	29.49	22	iPd	39	07.90	0.3
			eS	43	18.00	
LMG	29.61	124	iPd	39	08.00	-1.0
GIF	29.62	22	Pd	39	08.50	-0.2
WB7	29.71	160	iPc	39	09.60	0.0
WB3	29.78	160	iPc	39	09.60	-0.6
SHZ	29.89	25	P	39	10.50	-0.4
			eS	43	24.00	
FUK	30.01	20	ePd	39	11.00	-1.0
			eS	43	25.00	
OSH	30.12	26	Pd	39	11.20	-1.7
			iS	43	27.70	
IID	30.12	23	ePd	39	12.00	-1.0
			S	43	25.00	
MIS	30.22	25	eP	39	13.00	-0.8
			e	43	27.00	
AJI	30.24	26	Pd	39	12.70	-1.2
			S	43	27.90	
KOF	30.55	24	eP	39	15.00	-1.5
			eS	43	36.00	
DL2	30.68	357	iPd	39	18.00	0.4
			PcP	41	56.00	
			S	43	36.00	
			iScS	48	40.00	
SRY	30.79	25	iPd	39	16.40	-2.2
YOK	30.81	26	P	39	16.70	-2.0
			eS	43	37.00	
KYS	30.82	27	iPd	39	15.20	-3.6X
RAB	30.86	112	iPc+	39	20.70	1.3
TOK	31.07	26	P	39	19.00	-1.8
			S	43	37.00	
DDR	31.09	25	iPd	39	19.30	-1.9
MAT	31.17	23	iPd-	39	20.50	-1.3
	1.6s	3033.33nm				6.7mb
			eS	43	35.00	
TIY	31.17	342	iPc	39	22.50	0.6
			pP	40	57.00	
NGN	31.27	23	P	39	22.50	-0.1
			e	43	46.60	
WAJ	31.45	20	Pd	39	24.20	0.2
			S	43	44.00	
CHO	31.58	27	eP	39	23.00	-2.1
			e	43	44.00	
TSK	31.66	26	iPd	39	22.60	-3.3X
TKD	31.68	22	eP	39	25.00	-1.0
			eS	43	50.00	
UTS	31.84	25	eP	39	25.00	-2.4
			S	43	49.00	
MIT	31.96	26	eP	39	26.00	-2.3
			eS	48	44.00	
ALOA	32.20	124	iPc	39	31.50	0.9
BJI	32.48	349	iPd-	39	33.30	0.7
	2.7s	373.00nm				5.5mb X
			pP	41	09.00	
			sP	42	24.00	
			S	44	02.00	
			ScS	48	48.50	
AIK	32.49	22	eP	39	32.00	-0.8
			eS	44	03.00	
ISO	32.61	152	iPc	39	33.70	-0.3
FKS	33.13	25	eP	39	38.00	-0.1
			eS	44	14.00	
ASPA	33.13	163	iPc	39	38.80	0.4
LZH	33.23	330	iPc+	39	41.00	1.8
	6.0s	********nm				7.1mb X
			ipP	41	19.50	
			PcP	42	07.00	
			isP	42	29.00	

TABLE 4-200

05d 03h

			iS	44 11.00		
			iScS	48 50.00		
YAM	33.50	24	iPd	39 41.70	0.5	
			S	44 21.50		
SNY	33.54	360	iPd	39 41.90	0.4	
			pP	41 21.50		
			iS	44 14.00		
			ScS	48 52.60		
SEN	33.73	25	Pd	39 43.50	0.4	
			S	44 21.50		
ISN	34.04	25	Pd	39 45.50	-0.1	
			eS	44 25.00		
WBN	34.19	176	iPc	39 48.00	1.0	
HHC	34.33	343	iPc	39 49.40	1.2	
BGA	34.39	113	eP	39 48.00	-1.0	
			eS	44 36.00		
BTO	34.56	341	iPd	39 50.50	0.4	
			S	44 36.00		
AKI	34.67	22	eP	39 52.00	1.2	
			eS	44 41.00		
PAA	34.73	113	iPd	39 51.30	-0.4	
			ePP	41 30.00		
			e	41 39.00		
			eS	44 42.00		
OFU	34.75	25	iPd	39 51.90	0.5	
			S	44 36.50		
MEK	34.92	188	eP	39 53.00	0.0	
MRK	35.06	24	P	39 54.60	0.6	
			S	44 44.10		
MIY	35.34	25	P	39 56.40	0.1	
			S	44 46.10		
CN2	35.54	2	iPd	39 57.50	-0.4	
			pP	41 38.00	570kmX	
			sP	42 48.00		
			ScP	44 59.50		
			ScS	49 00.00		
VLA	35.56	10	iPd	40 00.00	2.0	
			iS	44 54.00		
CTA	35.73	142	iPc+	40 00.70	1.0	
			iS	44 34.00		
AOM	35.88	22	P	40 01.70	1.0	
			S	44 57.20		
HAC	35.92	23	eP	40 01.00	0.0	
			eS	44 53.00		
MDJ	36.68	7	iPd	40 07.80	0.6	
			pP	41 49.00	571kmX	
			PcP	42 19.00		
			sP	42 56.00		
			ScP	45 09.50		
			S	46 04.00		
HAK	36.74	21	iPd	40 08.60	0.8	
			e	45 08.00		
LSA	37.36	309	iPc	40 14.90	1.4	
SUT	37.42	20	iPd	40 14.30	1.0	
			e	45 19.80		
URA	37.80	23	Pd	40 18.20	1.9	
			eS	45 26.00		
GTA	37.82	329	iPc	40 18.10	1.3	
			pP	42 05.10		
			iS	45 23.00		
SAP	38.04	21	iPd	40 19.20	1.0	
			S	45 27.80		
OBI	38.62	23	iPd	40 24.60	1.6	
			S	45 37.70		
KLG	38.77	183	iPc	40 23.80	-0.6	
RMJ	38.92	21	Pd	40 26.40	1.0	
			eS	45 41.00		
ASA	39.03	22	Pd	40 26.80	0.5	
			eS	45 41.00		
BAL	39.12	190	iPc	40 26.50	-0.7	
KUS	39.13	24	Pd	40 27.60	0.5	
			eS	45 43.00		
VSG	39.75	115	eP	40 32.00	-0.5	
SVO	39.80	115	eP	40 33.00	0.2	
NEM	39.91	25	Pd	40 33.30	0.0	
			S	45 53.30		
KLB	39.93	188	iPc	40 33.20	-0.4	
ABJ	39.96	23	eP	40 33.00	-0.7	
			eS	45 54.00		
HNR	40.04	115	eP	40 34.00	-0.7	
WAK	40.22	20	eP	40 37.00	1.2	
			eS	45 59.00		
MUN	40.55	190	iPc	40 37.80	-0.7	
PKI	41.07	303	iPc	40 43.20	0.1	
KKN	41.25	303	iPc	40 49.80	5.3X	
NWAO	41.32	188	iPc	40 44.70	0.2	
DMN	41.33	303	iPc	40 45.70	0.6	

YSS	41.98	19	iPd	40 49.00	-0.6	
	0.9s	2260.00nm			6.6mb	
			ePcP	42 28.00		
			iS	46 20.00		
			eScS	49 34.00		
KUR	42.42	25	iPd	40 53.00	-0.1	
	4.0s	********nm			7.1mb X	
			ePcP	42 32.50		
			iS	46 29.00		
RKG	42.47	188	iPc	40 57.70	4.1X	
STK	43.29	158	iPc	41 00.10	0.1	
UGL	43.61	17	eP	41 02.00	-0.2	
	1.4s	34.00nm			4.6mb X	
CMS	44.70	153	iPc	41 11.50	0.6	
HYB	44.96	286	iPc	41 13.00	-0.1	
	0.8s	1046.20nm			6.3mb	
			e	42 38.50		
			e	44 11.00		
			iS	47 06.00		
BRS	45.13	143	iPc	41 14.10	-0.1	
			e	41 48.00		
			e	42 36.00		
			e	43 00.00		
			e	44 22.00		
			e	45 30.00		
ADE	45.14	163	iPc	41 14.60	0.3	
GBA	45.77	281	P	41 19.70	0.4	
IRK	46.79	344	iPd	41 26.00	-- 5	
	2.0s	3530.00nm			6 5mb	
	Z 16s	34.10um			6.4MszX	
	N 16s	14.20um				
	E 18s	22.20um				
			iPcP	42 44.00		
			eS	47 30.00		
			eScS	50 10.00		
			esS	51 00.00		
			eSS	51 11.00		
COO	47.01	146	iPc	41 29.20	0.7	
MOY	47.28	341	eP	41 31.00	0.9	
	1.0s	2250.00nm			6.6mb	
			eS	47 41.20		
WMO	47.44	325	iPc	41 31.50	-0.2	
			sP	43 29.00		
YOU	48.21	152	iPc	41 37.60	0.3	
			e	03 45.80		
			e	12 04.20		
NDI	48.29	301	ePc	41 37.00	-1.1	
			eS	47 48.00		
BFD	48.39	160	iPc	41 38.20	-0.4	
KOU	48.99	126	iPc	41 42.60	-0.6	
			iS	48 03.20		
RIV	49.17	150	iPc	41 45.20	0.9	
	0.9s	********nm			7.9mb X	
POO	49.52	287	iPc	41 47.20	0.0	
	1.0s	750.00nm			6.0mb	
UER	49.70	336	iPc	41 47.00	-1.0	
	Z 14s	1.05um			5.0MszX	
	N 14s	2.01um				
	E 14s	1.06um				
			eS	48 13.20		
TOO	49.81	157	iPc	41 49.20	0.1	
	0.5s	469.00nm			6.1mb	
WAM	50.03	153	iPc	41 51.10	0.4	
			e	03 43.60		
			e	12 04.60		
SKR	50.13	26	iPd	41 51.00	-0.3	
	0.7s	2460.00nm			6.7mb	
	Z 20s	28.40um			6.3Msz	
	N 18s	18.30um				
	E 24s	12.80um				
			iPcP	43 02.60		
			iS	48 12.00		
			iScS	50 34.00		
			iSS	52 00.00		
BOD	50.14	353	iP	41 50.90	-0.3	
	0.8s	1800.00nm			6.5mb	
PVC	50.96	121	iPc	41 56.80	-0.8	
			iS	48 28.00		
NOU	51.62	127	iPc	42 02.30	-0.1	
			iS	48 38.00		
PRZ	52.47	318	iPc	42 09.70	1.3	
	2.0s	********nm			7.2mb	
	Z 15s	26.00um			6.4MszX	
	N 15s	20.70um				
			ePcP	43 07.00		
			epP	44 09.00	665kmX	
			eS	48 50.00		

			eScS	50 50.00		
KSH	52.84	314	iPd	42 13.00	2.0	
			iS	48 57.00		
PET	52.92	26	iPd	42 10.00	-1.2	
	1.0s	4800.00nm			6.8mb	
	Z 16s	16.00um			6.2MszX	
	N 16s	11.00um				
	E 16s	8.50um				
			ePcP	43 06.00		
			iS	48 50.00		
			eScS	50 42.00		
			esS	52 28.00		
TLG	53.49	319	iP	42 16.50	1.0	
			ipP	44 15.00	651kmX	
			iS	49 02.00		
NRN	53.62	316	iPc	42 17.00	0.3	
			eS	49 04.00		
AAA	53.78	319	iPd	42 18.50	1.0	
			iPcP	43 14.50		
			epP	44 22.00	692kmX	
			iS	49 08.00		
			iScS	50 52.00		
			isS	52 44.20		
YAK	53.94	3	iPc	42 18.90	0.7	
	0.8s	4400.00nm			6.8mb	
			iS	48 59.90		
			isS	52 41.90		
ELT	54.23	333	iPd	42 19.10	-1.2	
			iS	49 09.00		
FRU	55.13	317	iPd	42 27.00	0.1	
	1.6s	3600.00nm			6.4mb	
	Z 21s	23.00um			6.2Msz	
	N 18s	20.00um				
	E 21s	25.00um				
			ePcP	43 20.00		
			epP	44 28.00	661kmX	
			iS	49 20.00		
TAU	55.16	159	iPc	42 27.20	0.3	
			i	42 32.00		
			PP	44 24.00		
			ScP	46 23.60		
			S	49 24.00		
			ScS	51 12.00		
			SS	53 12.00		
KHO	55.42	310	iPd	42 29.10	0.0	
			ePcP	43 17.60		
			epP	44 32.20	677kmX	
			esP	45 40.60		
			iS	49 22.20		
SEM	55.42	328	iPc	42 27.90	-0.8	
	8.6s	********nm			6.3mb X	
			ePcP	43 18.50		
			epP	44 32.10	686kmX	
			eS	49 15.50		
MGD	55.69	16	iPd	42 29.80	-0.5	
	2.0s	********nm			7.2mb	
			iPcP	43 19.00		
			ipP	44 32.00	667kmX	
			iS	49 25.00		
			iScS	51 12.00		
ANR	55.90	314	iPd	42 32.50	0.3	
	2.0s	6300.00nm			6.5mb	
			iPcP	43 18.50		
			ipP	44 37.00	685kmX	
			iS	49 35.00		
NVS	56.64	333	iPd	42 50.50	13.7X	
	1.1s	360.00nm				
			iS	49 32.80		
GAR	56.80	312	iP	42 38.00	-0.4	
			epP	44 41.50	670kmX	
KUL	56.89	310	iPd	42 38.20	-0.8	
			iS	49 44.40		
QUE	57.35	301	eP	42 42.00	-0.4	
			eS	49 49.00		
DSH	57.82	311	iPd	42 45.00	-0.3	
			epP	44 50.00	675kmX	
			iS	49 51.00		
TAS	58.27	314	iPd	42 49.00	0.8	
	1.8s	********nm			7.0mb	
	Z 23s	50.00um			6.6MszX	
	N 23s	19.00um				
			epP	44 54.00	672kmX	
			iS	50 02.00		
SEY	58.46	15	iPd	42 49.10	0.1	
	1.1s	2070.00nm			6.3mb	
			iPcP	43 33.10		
			iS	50 00.60		

```
                iScS  51 31.00
NDF   58.92 116 iPc   42 54.50   1.8
                +S    44 52.60
SAM   59.46 311 iPd   42 55.90  -0.2
      3.9s  *******nm          7.0mb X
                iPcP  43 36.70
                ipP   45 02.00 673kmX
                iS    50 23.10
VDW   59.66 116 eP    42 58.00   0.3
NMS   59.68 116 eP    43 04.00   6.2X
BOA   59.76 117 eP    42 58.50   0.2
VUN   59.91 116 ePd   42 59.80   0.5
      1.4s    55.00nm          4.6mb X
SVA   59.95 116 eP    42 59.20  -0.3
OVA   60.09 116 eP    43 00.50   0.1
SMY   60.26  33 ePd   43 01.00   0.1
KRO   60.50 115 eP    43 03.40   0.2
TIK   63.50   2 ePd   43 20.00  -1.5
      0.9s  1840.00nm          6.4mb
                ePP   45 53.50
                eS    51 01.50
                eSP   51 25.00
                eScS  52 06.00
MHI   64.53 306 iPd-  43 28.90   0.2
      0.8s  2346.27nm          6.6mb
                e     45 36.00
                eSn   51 20.00
ADK   65.07  36 iPd   43 30.10  -1.5
NRI   65.40 347 iPd   43 31.70  -1.6
      6.0s  *******nm          6.8mb X
    Z  16s    27.60um          6.6MszX
    N  18s    10.50um
    E  18s    27.90um
                epP   45 41.00 666kmX
                eScS  52 26.00
ASH   65.69 308 iPc   43 37.00   1.3
      2.0s  6800.00nm          6.7mb
                epP   45 44.65 653kmX
                ePP   46 08.00
                esP   46 59.00
                iS    51 35.00
                eSP   51 52.50
                eScS  52 29.00
VAN   65.88 308 iPd   43 37.10   0.2
    Z  20s    24.30um          6.4Msz
    N  20s    28.50um
    E  20s    24.40um
                epP   45 46.00 661kmX
                ePP   46 10.00
                eS    51 38.00
                eScS  52 26.00
MSZ   65.90 147 P     43 37.00   0.3
                PP    45 46.00
                S     51 39.00
                ScS   52 47.00
                SS    57 05.00
KRP   66.52 137 Pc    43 42.10   1.4
                i     51 48.50
                e     11 16.00
                e     12 03.00
                e     12 16.90
NUK   66.59 117 iPc   43 39.30  -2.1
RAO   67.29 126 P     43 45.30  -0.2
                S     45 59.20
KAT   67.49 309 iPd   43 48.50   1.9
                epP   45 57.00 652kmX
                eS    51 54.50
TCW   67.50 141 P     43 45.30  -1.3
AFI   67.60 109 P     43 48.00   0.3
                eS    46 00.00
SNZO  67.82 141 eP    43 48.00  -0.5
WEL   67.85 141 P     43 48.00  -0.7
    Z  20s    73.76um          6.9Msz
    N  21s    30.11um
    E  20s    39.72um
                PP    45 48.00
                S     51 56.00
                ScS   52 46.00
                SS    56 22.00
SVE   68.68 328 iPd   43 53.00  -0.4
                ipP   46 09.00 700kmX
                iS    52 04.00
MCQ   69.04 159 iPc   43 56.40   0.9
ARU   69.63 327 iPd   43 58.00  -1.0
    Z  17s    19.50um          6.4MszX
    E  17s    18.00um
                eSP   52 47.00
                eSPP  53 13.00
SHI   69.74 299 eP    43 59.00  -1.4
NKI   69.96  36 P     44 00.70  -0.3
ILT   70.64  20 iP    44 04.70   0.0
      1.2s  7800.00nm          7.1mb
                iPP   46 55.00
NUE   70.69 113 P     44 07.10   1.3
TEH   71.00 305 eP    44 07.00  -0.6
CBZ   71.75 153 eP    44 12.50   1.2
                PP    46 30.00
BAK   72.49 310 iPc   44 18.00   2.2
PCR   72.99 245 eP-   44 20.00   0.7
KER   74.46 303 iP    44 26.50  -0.7
                e     53 09.00
TAB   75.15 307 iPd-  44 32.00   1.1
GRS   75.18 309 iPd   44 31.80   0.7
      1.6s  3020.00nm          6.6mb
                iPcP  44 44.20
                ipP   46 48.00 675kmX
                iPPP  49 22.00
                iS    53 21.00
                iSKS  53 30.00
                iScS  53 44.20
KRV   75.22 310 iPd   44 32.00   1.0
                epP   46 48.00 673kmX
                iS    53 20.00
SDN   75.23  35 P     44 30.50  -0.2
DRV   75.55 173 iP    44 31.60  -0.6
KIP   76.14  70 P     44 38.00   1.7
HON   76.15  70 P     44 38.00   1.6
MTA   76.40 311 iPd   44 38.00   0.6
                ipP   46 53.00 663kmX
                eS    53 33.00
ERE   76.61 309 iPd   44 39.00   0.3
                ipP   46 58.00 689kmX
                iS    53 35.00
BHD   76.73 302 iPc   44 40.00   0.6
                iPP   46 13.00
                ePPP  46 39.00
                ePcP  46 45.00
                eS    50 37.00
                iSS   53 33.00
                iSSS  54 06.00
                eLO   57 43.00
LEN   77.11 310 iPd   44 44.00   2.5
      1.4s  3600.00nm          6.7mb
                ipP   47 00.00 667kmX
                iS    53 46.00
BKR   77.36 311 iPd   44 44.00   1.2
                ipP   46 58.00 653kmX
                isP   48 06.00
                iS    53 40.00
MSL   77.69 305 iPc   44 43.00  -1.4
                i     44 52.00
                iPcP  46 11.50
                iPP   46 58.00
                iS    53 43.00
                iPS   54 03.10
                i     54 37.00
PYA   77.72 313 iPd   44 44.50   0.0
      1.0s  3200.00nm          6.8mb
                ePPP  49 52.00
                iS    53 43.00
                iSP   54 32.00
MIR   77.80 192 iPd   44 44.00  -0.3
      1.5s  2800.00nm          6.6mb
                iS    53 43.00
                eSP   54 30.00
KHE   78.13 351 iPd   44 47.00   1.0
      1.8s  *******nm          7.1mb
                epP   47 02.00 658kmX
                iPP   47 53.00
                iS    53 49.00
                iSP   54 35.00
TTA   78.33  27 ePd   44 48.30   0.9
SVW   78.37  29 P     44 49.10   1.5
BRW   78.95  19 iPd   44 51.50   1.2
IMA   79.58  24 P     44 55.30   1.4
KDC   79.82  33 P     44 56.70   1.7
RDT   79.92  30 P     44 55.10  -0.5
SOC   80.14 313 iPd   44 56.50  -0.6
                ipP   47 14.00 668kmX
                ePPP  50 10.00
                iS    54 08.00
SLV   80.31  31 P     44 57.50  -0.1
SKT   80.37  28 P     44 57.40  -0.5
MDS   81.16 325 iPd   45 02.00   0.1
      5.0s  *******nm          7.2mb X
                ipP   47 18.00 656kmX
                iPP   48 16.00
                iS    54 16.00
                iSP   55 08.00
PMR   81.51  29 P     45 03.50  -0.1
PME   81.56  29 iPd   45 03.60  -0.2
      1.0s  3250.00nm          6.8mb
OBN   81.76 325 iPd   45 04.50  -0.5
      2.0s  *******nm          7.7mb X
    Z  18s    14.50um          6.4Msz
    N  23s     7.40um
    E  23s    15.00um
                esP   48 36.00
                iS    54 25.00
                eSS   00 08.00
ANN   81.82 314 iPd   45 04.50  -1.0
      0.8s  4500.00nm          7.1mb
                epP   47 21.50 660kmX
                iPP   48 30.00
                iS    54 21.00
                iSKS  54 24.00
COL   82.02  26 iPd   45 05.90  -0.2
    Z  18s    23.71um          6.6Msz
                iS    54 24.00
FBA   82.02  26 iPd   45 05.70  -0.4
APA   82.70 337 iPd   45 08.70  -0.8
      1.2s  3400.00nm          6.8mb
                iS    54 28.00
HIN   82.84  30 P     45 11.70   1.3
TOA   82.89  28 P     45 11.70   1.1
KVT   83.00 310 iPd   45 12.30   0.7
AAE   83.86 278 eP    45 18.00   1.4
HRI   83.95 303 iP    45 17.50   1.0
GLB   84.06  29 P     45 16.80   0.4
SIM   84.07 314 iPd   45 16.00  -0.7
                iPPP  50 44.00
                iSKS  54 36.00
                iSP   55 48.00
ADI   84.40 303 iP    45 19.50   0.9
JER   84.57 301 iPd   45 21.50   2.0
ZNT   84.66 302 iP    45 21.00   1.2
KEV   84.76 340 iPd-  45 18.80  -0.7
      0.5s   926.30nm          6.7mb
                i     45 22.40
                epP   47 32.00 629kmX
                esP   48 36.00
                esPP  51 52.00
                eS    54 40.00
PUL   84.77 330 iPd   45 20.00   0.3
      2.0s  *******nm          7.2mb
                ipP   47 40.00 672kmX
NOH   84.88 300 iP    45 23.00   2.0
SOD   85.29 337 iPd   45 21.30  -0.8
                iPKKP 03 21.20
CTGM  85.31  29 P     45 23.60   1.0
KJF   85.36 334 iPd-  45 21.90  -0.6
                epP   47 38.00 646kmX
                esP   48 40.00
                esPP  51 52.00
                iSKS  54 43.50
                eS    55 00.00
PCA   85.97  30 iPd   45 26.20   0.6
KBS   86.17 350 iPd   45 25.50  -0.7
SUF   86.31 333 iP    45 26.30  -0.8
KDE   86.45 311 iP    45 26.10  -2.1
MAW   86.88 200 eP    45 29.00  -0.6
      1.1s   225.00nm          5.8mb
                epP   45 35.00  19kmX
                eS    47 45.00
MNK   87.13 324 iPd   45 30.00  -1.1
                iS    55 06.00
                iSP   56 16.00
INK   87.16  21 iPd   45 30.80  -0.2
                pP    46 28.00 235kmX
GPA   87.43 310 iPd   45 31.50  -1.4
KIS   87.44 317 iPd   45 32.00  -0.7
      1.5s  4100.00nm          6.9mb
                iS    55 16.00
                iSP   56 26.00
NUR   87.44 331 iPd-  45 32.00  -0.4
      1.1s  1175.60nm          6.5mb
                epP   47 44.00 616kmX
                esP   48 48.00
                esPP  52 12.00
                iSKS  54 56.50
                eS    55 16.00
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05d 03h

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BCK     87.62 307 iP     45 31.10  -2.8
HLW     88.10 300 iPd    45 35.00  -1.1
CFR     88.23 315 iPc    45 36.00  -0.4
ISK     88.25 311 iPc    45 35.80  -0.8
ELL     88.27 307 iPd    45 36.00  -0.9
MBC     88.30  12 iPc    46 36.50  60.3X
BIR     88.40 316 eP     45 38.00   0.8
TLB     88.41 315 iPd    45 37.00  -0.2
PPE     88.42 316 iPc    45 37.00  -0.3
PSN     88.46 314 iPd    45 38.00   0.6
CTT     88.70 311 eP     45 37.50  -1.2
DST     88.81 310 iPd    45 38.10  -1.2
AFR     89.06 108 iP     45 43.90   3.2X
        1.0s   335.00nm          6.1mb
SBA     89.09 172 eP     45 41.70   2.0
                  S      55 09.20
SIT     89.10  32 iPd    45 41.00   0.9
PPT     89.26 108 iP     45 44.70   3.1X
        1.0s   120.00nm          5.7mb
EDC     89.26 311 iPc    45 40.30  -1.0
PAE     89.27 108 iP     45 44.60   3.0X
        1.0s   110.00nm          5.7mb
ISR     89.35 315 iPd    45 42.00   0.3
PPN     89.39 108 iP     45 45.10   2.9X
        1.0s    95.00nm          5.6mb
ALE     89.43   1 ePd    45 41.00  -0.3
        0.5s   173.00nm          6.2mb
CVO     89.48 316 iPd    45 42.00  -0.2
TVO     89.59 108 iP     45 46.20   3.0X
        1.0s   290.00nm          6.1mb
MFT     89.62 311 iP     45 42.50  -0.5
MLR     89.70 316 iPd    45 43.00  -0.4
JMB     89.83 313 iPc    45 43.00  -0.8
BUC1    89.87 315 iPd    45 43.00  -0.9
CGN     89.92 315 ePd    45 44.00  -0.2
LVV     90.07 320 iPd    45 44.70  -0.1
                  iS     55 40.70
                  iSP    57 00.00
                  iSS    02 04.70
TBI     90.24 113 iP     45 50.70   4.7X
        0.8s    60.00nm          5.6mb X
MSR     90.36 317 ePd    45 43.00  -3.3X
CMP     90.37 316 ePd    45 45.00  -1.3
PMO     90.48 105 iP     45 50.20   3.0X
        1.0s   150.00nm          5.9mb
EZN     90.52 310 iPc    45 45.80  -1.2
DIM     90.64 312 iP     45 48.00   0.5
PRK     90.67 310 iPd    45 46.90  -0.8
PVL     90.71 314 iPd    45 47.00  -0.9
TPT     90.74 105 iP     45 51.40   3.0X
        1.0s    95.00nm          5.7mb
VAH     90.76 105 iP     45 51.30   2.8
        1.0s    85.00nm          5.6mb
KDZ     90.89 312 iPd    45 50.00   1.3
BMR     90.89 318 ePc    45 50.00   1.4
RUV     90.99 105 iP     45 52.40   2.8
        1.0s    80.00nm          5.6mb
UPP     91.00 331 iPd    45 47.50  -1.3
        1.3s  4200.00nm          7.2mb
                  iS     55 16.00
                  iScS   55 46.50
DRA     91.04 315 eP     45 49.00  -0.3
CJR     91.04 317 iP     45 50.10   0.7
PLD     91.27 313 iPd    45 51.00   0.6
WAR     91.34 323 eP-    45 55.00   4.5X
                  e      48 15.00
                  e      49 08.00
                  e      55 55.00
                  e      57 08.00
                  e      58 12.00
UZH     91.45 319 iPc    45 52.00   0.9
    Z   17s    18.00um          6.6MszX
    N   17s     8.00um
    E   17s    15.00um
                  epP    48 12.00 658kmX
                  ePP    49 48.00
                  iS     55 54.00
                  iSP    57 14.00
NPS     91.95 306 iPd    45 53.20  -0.6
MMB     92.09 312 iPd    45 53.00  -1.3
VTS     92.25 313 iPd    45 54.00  -0.9
                  eS     48 22.00
                  eSg    49 42.00
DAG     92.52 352 iPd    45 54.20  -1.4
        0.6s    20.00nm          5.4mb X
                  i      56 02.00
KRA     92.58 321 iPd    45 55.90  -0.4
        1.5s  2683.00nm          7.1mb
    Z   24s    39.20um          6.8MszX
    N   24s    25.40um
    E   24s    40.00um
                  i      45 58.40
                  i      45 59.40
                  i      46 02.40
                  i      46 03.90
                  i      48 13.00
                  iS     56 01.00
JOS     92.62 320 iPd    45 57.20   0.7
        1.2s   280.00nm          6.2mb
SPC     92.62 320 eP     45 57.60   0.8
        1.6s  1477.00nm          6.8mb
                  i      48 22.60
                  i      49 58.90
                  e      55 18.00
                  i      56 42.00
SSR     92.74 316 iP     45 57.00  -0.2
HFS     92.76 332 eP     45 55.80  -1.2
        1.3s  4722.00nm          7.4mb
TIM     92.88 317 iPd    45 56.70  -1.1
ATH     92.89 309 iPd    45 56.20  -1.8
VAY     93.00 312 iPd    45 57.00  -1.4
PSZ     93.19 319 iPd    45 57.60  -1.7
NB2     93.55 333 P      45 59.10  -1.5
SKO     93.66 313 iPd    46 00.10  -1.4
        1.5s  1900.00nm          7.0mb
                  i      46 03.00
                  ePP    48 05.00
                  iPPP   48 56.00
                  iS     53 00.20
                  iSS    56 09.00
                  iSSS   57 38.50
KZN     93.83 311 iPd    46 00.00  -2.4
BUD     93.87 319 iPd    46 01.70  -0.6
        1.4s   360.00nm          6.3mb
SRO     94.24 319 ePd    46 03.40  -0.5
                  e      48 23.40
                  e      50 01.00
                  e      55 03.40
                  e(S)   56 19.40
                  e      01 29.40
OHR     94.34 312 iP     46 00.20  -4.4X
                  i      48 55.10
MTD     94.40 254 iPd    46 03.00  -2.3
                  iPP    48 29.00
                  i      50 01.00
                  i      50 47.00
                  i      03 03.00
KSP     94.57 323 iPd    46 05.60   0.2
        1.3s  2463.00nm          7.2mb
                  i      48 37.00
                  i      50 10.50
KONO    94.85 332 iP     46 05.50  -1.0
ZST     94.90 320 ePd    46 06.50  -0.4
                  e      46 40.00
                  e      50 10.00
COP     95.05 328 iPd-   46 07.00  -0.4
        1.3s  1615.39nm          7.1mb
    Z   20s    17.02um          6.5Msz
                  i      48 25.00
                  iS     57 40.00
TTG     95.11 314 iP     46 07.00  -0.9
                  e(S)   55 34.00
VLS     95.24 310 iPd    46 07.00  -1.7
VIE     95.35 320 iP-    46 09.70   0.8
                  i      46 11.80
                  e      49 30.20
                  i      50 17.00
VKA     95.38 320 iPd    46 09.10   0.0
                  i      46 11.90
                  i      50 16.10
                  i      55 44.90
PHC     95.40  37 iPd    46 09.40   0.3
        0.8s   334.00nm          6.6mb
SYO     95.49 201 iP     46 08.50  -0.6
BRL     95.77 325 iPd    46 12.00   1.3
BRN     95.84 325 iPd    46 11.80   0.8
BLY     95.89 317 iP     46 11.60   0.2
PRU     95.91 322 iPd    46 11.60   0.2
        1.5s  1529.00nm          7.0mb
    Z   18s    15.40um          6.5Msz
    N   18s     9.70um
    E   18s    11.90um
                  ePP    50 16.00
                  SKS    56 34.00
                  PKKP   01 51.00
BRG     95.96 323 iPd-   46 11.70   0.1
        1.4s  2700.00nm          7.3mb
                  i(pP)  47 05.00 216kmX
                  eSKS   56 38.00
                  eP'P'  11 05.50
KRI     96.27 254 iPd    46 11.00  -2.8
                  iPP    48 33.00
                  i      50 25.00
                  i      02 57.00
CLL     96.36 324 iPd    46 13.20  -0.2
        1.5s   480.00nm          6.5mb
                  epP    48 32.00 649kmX
                  eS     56 37.00
MUD     96.41 329 iPd    46 13.10  -0.4
        1.1s  1100.00nm          7.0mb
BER     96.43 334 eP     46 13.00  -0.5
LCI     96.64 312 iPd    46 13.50  -1.4
YKA     96.68  23 eP     46 15.20   0.5
YKC     96.74  23 ePd    46 15.00   0.1
        1.6s  1132.00nm          6.9mb
KMI     96.83 320 iP-    46 16.30   0.7
                  e      48 48.00
                  i      50 26.80
                  i      58 07.60
BRT     97.03 313 eP     46 16.00  -0.6
                  e      50 28.00
WET     97.22 322 iPd    46 17.50   0.0
LJU     97.25 318 iPd    46 17.10  -0.6
                  ePP    48 44.80
                  e      49 15.00
                  e      50 26.50
                  eS     55 52.00
HAM     97.27 327 iPd    46 18.00   0.5
HOF     97.39 323 iPd    46 18.10  -0.1
                  e      56 46.00
MOX     97.42 324 iPd-   46 18.50   0.2
        1.6s  2315.00nm          7.2mb
    Z   18s    15.40um          6.5Msz
    N   16s    14.40um
    E   16s     8.20um
                  epP    48 38.00 653kmX
                  iPP    50 28.00
                  iPPP   52 36.00
                  iSPP   53 36.00
                  iSKS   56 48.00
                  iSP    58 12.00
                  isSP   02 12.00
                  iSS    03 45.00
                  eSSS   07 20.00
                  e      11 05.00
CEY     97.42 318 iPd    46 18.10  -0.4
BUL     97.58 251 iPd    46 18.00  -1.7
        0.9s   315.13nm          6.6mb
                  iPP    48 40.00
                  i      50 30.00
                  i      50 53.00
                  iS     55 55.00
KBA     97.67 320 iPd    46 18.50  -1.3
        1.2s   468.80nm          6.7mb
                  i      46 20.70
                  i      47 20.00
                  i      48 51.20
                  i      49 50.90
                  i      50 08.30
                  i      50 20.20
                  i      50 42.80
                  i      51 56.70
                  i      55 57.30
                  i      02 52.00
BHG     97.73 320 iPd    46 19.40  -0.4
EVA     97.77 244 iPd    46 19.70  -0.8
        1.0s   388.00nm          6.7mb
                  i      48 45.50
ORI     97.82 312 eP     46 20.00  -0.3
                  e      50 33.00
TRI     97.87 318 iPd    46 19.50  -0.9
                  i      48 38.00
                  i      49 40.00
                  i      50 31.10
                  i      53 38.00
                  i      56 50.00
                  i      58 04.00
                  i      02 18.00
CSI     98.02 312 iPc    46 20.80  -0.5
GRF     98.02 323 iPd    46 21.40   0.3
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     Z  21s     15.50um          6.5Msz
                ePP    50 34.00
                eSKS   56 53.00
                e(S)   58 19.40
SPA    98.89 180 eP     46 21.70   0.6
     1.0s     20.50nm          5.4mb X
     Z  20s     18.29um          6.6Msz
SLR    98.41 245 iPd    46 22.20  -1.2
     1.6s    766.67nm          6.8mb
     Z  20s     15.96um          6.5Msz
                i      48 44.60
PGC    98.56  38 eP     46 23.80   0.4
FUR    98.57 321 iPd    46 23.40  -0.2
                i      46 25.90
                e      50 39.00
                e      56 00.50
                e      02 23.00
BPI    98.67 245 eP     46 23.00  -1.6
     1.0s    150.00nm          6.3mb
                i      48 47.50
DUI    98.75 314 eP     46 26.00   1.6
MCW    98.92  38 P      46 24.70  -0.4
MSI    99.04 311 eP     46 26.50   0.7
                e      50 45.00
OVO    99.07 314 eP     46 25.50  -0.4
CTI    99.13 319 iPd    46 25.00  -1.2
                e      48 54.00
                e      50 44.00
                e(S)   56 02.50
NPL    99.16 314 eP     46 25.70  -0.5
SEK    99.20 243 iPd    46 25.80  -1.1
     0.9s    184.87nm          6.4mb
                i      48 51.00
OGA    99.22 320 iPd    46 26.10  -0.6
AQU    99.26 315 iPd    46 26.50  -0.3
                e      49 03.00
                e      50 45.50
                e(S)   56 10.00
WIT    99.32 327 iPd    46 27.80   1.1
                e      49 03.00
                e      58 35.00
GMW    99.39  39 P      46 28.00   0.8
TNS    99.45 324 iPd    46 22.40  -5.1X
                e      49 00.00
                e      50 41.00
                e      56 06.50
                e      57 09.30
                e      58 33.30
                e      59 31.00
BFW    99.53  40 P      46 28.40   0.5
WTS    99.61 326 iPd    46 28.40   0.4
     1.4s   2231.00nm          7.4mb
                i      50 46.20
                e      58 21.50
MNS    99.75 315 iPd    46 27.50  -1.3
                e      49 04.00
                e      50 41.50
                e(S)   56 04.50
BFS    99.84 244 iPd    46 29.00  -0.7
     0.9s    126.05nm          6.3mb
                i      48 54.30
BNS    99.86 325 iPkPd  46 29.20   0.0
                iPP    48 46.00
                i      49 55.00
RMP    99.94 315 iPd    46 29.00  -0.7
                iPP    56 48.00
                iPS    59 44.00
RDP    99.95 315 eP     46 29.00  -0.8
                e      50 44.50
SAL   100.02 319 iPdiff46 30.00   0.1
                e      49 05.50
                e      50 50.00
                e(S)   56 08.00
COR   100.20  42 iPdiff46 16.00 -14.8X
BUH   100.23 323 ePdiff46 30.60  -0.3
FIR   100.23 317 iPdiff46 30.50  -0.4
                S      56 06.00
FIR   100.23 317 iPdiff46 40.50   9.6X
                ePP    49 28.00
                iS     56 06.00
GIB   100.26 311 e(Pdif46 30.00  -1.4
                e      50 12.00
GRM   100.42 238 iPdiff46 31.00  -1.1
     0.9s    151.26nm          6.4mb
DBN   100.46 327 iPdiff46 33.00   1.3
     Z  18s     16.20um          6.6Msz
                e      48 49.00
                e      49 49.00
                iPP    50 50.00
                i      52 48.00
                i      53 46.00
                e      57 15.00
                i      58 45.00
                i      59 37.00
                i      00 10.00
                i      02 56.00
GWF   100.46 323 iPdiff46 32.50   0.6
BLF   100.52 242 iPdiff46 32.00  -0.8
     0.6s     32.14nm          5.9mb
                i      48 57.00
PNT   100.59  37 ePdiff46 32.60   0.2
     1.0s    178.00nm          6.5mb
ENN   100.66 325 iPdiff46 33.00   0.4
     1.3s   1295.00nm          7.2mb
                i      50 51.50
                e      58 46.50
                e      59 29.00
CDF   100.91 323 ePdiff46 33.30  -0.7
WLF   101.03 324 Pdiff-46 36.00   1.7
                SKS    56 13.00
                S      57 21.00
                SP     58 52.00
ECH   101.07 322 iPdiff46 34.40  -0.2
FHC   101.12  46 ePdiff46 35.70   0.7
                ePP    50 59.00
AKU   101.21 345 iPdiff46 36.10   1.4
     1.3s    792.31nm          7.0mb
                i      49 54.20
                i      50 55.50
                i      02 46.10
VG1   101.22 319 ePdiff46 36.00   0.7
                e(S)   56 13.00
BAF   101.33 322 iPdiff46 35.50  -0.4
BSF   101.46 322 ePdiff46 35.60  -0.9
ROF   101.46 322 iPdiff46 35.80  -0.5
UCC   101.52 326 Pdiffc46 36.90   0.4
     1.4s   4327.00nm          7.7mb X
                e      48 58.00
                PP     51 00.00
                PPP    53 03.00
                e      54 02.00
                SP     58 54.40
HAU   101.65 323 ePdiff46 36.30  -0.9
     1.2s    139.40nm          6.3mb
ORO   101.66 320 e(Pdif46 36.50  -0.9
                e(S)   56 14.50
DOU   101.72 325 Pdiff 46 35.40  -2.0
     1.2s   6366.00nm          8.0mb X
                e      46 37.20
                sP     49 08.00
                PP     51 01.20
                PPP    53 01.00
                SKS    56 17.20
                S      57 23.00
                SP     58 55.00
                P'P'   13 23.10
EDM   102.16  31 iPdiff46 39.70   0.3
WDC   102.22  46 iPdiff46 39.90   0.0
                ePP    51 03.00
                eSKS   56 21.00
                eSP    59 07.00
                eP'P'  11 05.00
CVF   102.30 317 iPdiff46 39.30  -0.9
RMT   102.38  46 Pdiff 46 41.10   0.6
NEW   102.54  37 ePdiff46 41.00  -0.2
GDH   102.76 359 ePdiff46 41.00  -0.5
     1.4s    237.21nm          6.5mb
                i      49 00.00
EKA   102.97 332 Pdiffc46 45.30   2.5X
     1.4s    511.70nm          6.9mb
MIN   102.97  45 ePdiff46 42.80  -0.6
ORV   103.35  46 Pdiff 46 44.60  -0.3
FRF   103.39 318 iPdiff46 44.00  -1.0
REY   103.42 345 ePdiff46 47.40   2.8X
                i      51 12.40
BKS   103.44  48 ePdiff46 45.30  -0.1
     1.1s    230.00nm          6.7mb
                epP    49 04.00
LHD   103.46  36 ePdiff46 48.20   2.9X
LOR   103.48 323 ePdiff46 44.50  -0.8
     1.2s    278.90nm          6.7mb
LDM   103.50  36 iPdiff46 46.40   0.9
LBF   103.55 322 ePdiff46 44.70  -1.0
VDM   103.56 325 ePdiff46 47.70   2.1
LMR   103.57 318 iPdiff46 45.10  -0.7
LRG   103.62 318 ePdiff46 45.40  -0.6
CLX   103.73  36 iPdiff46 47.20   0.5
SMF   103.79 322 ePdiff46 46.10  -0.6
SSF   103.79 323 ePdiff46 46.00  -0.7
CDR   103.91 319 iPdiff46 49.90   2.6X
                e      51 19.80
GRC   103.94 323 iPdiff46 47.30   0.0
                i      50 48.50
                i      51 10.30
AVF   104.02 322 ePdiff46 47.00  -0.7
MHC   104.08  48 ePdiff46 48.70   0.3
                ePP    51 18.00
                ePKKP  02 38.90
ARN   104.15  48 Pdiff 46 48.50  -0.1
BNG   104.39 277 iPdiff46 49.00  -1.1
     1.1s     45.00nm          6.1mb
BCAO  104.40 277 Pdiff 46 48.20  -2.0
SAO   104.44  49 ePdiff46 49.50  -0.3
SLD   104.49  48 Pdiff 46 50.40   0.3
JAS   104.73  47 iPdiff46 51.10   0.0
                ePP    51 19.00
                eSKS   56 32.00
                eSP    59 30.00
                ePKKP  02 35.00
                eSS    05 24.00
MZF   104.76 322 ePdiff46 50.80  -0.2
NVL   104.80 199 ePdiff46 52.00   1.4
                ePP    51 21.00
                ePPP   53 42.00
                eSKS   56 29.00
                e      57 15.00
                eSP    59 32.00
SES   104.89  33 iPdiff46 51.30  -0.2
     0.7s    134.00nm          6.8mb
TCF   104.95 322 iPdiff46 51.50  -0.4
     1.3s    225.60nm          6.7mb
LDF   105.15 325 ePdiff46 52.30  -0.4
SUR   105.25 239 iPdiff46 58.00   4.2X
     0.7s     72.60nm          6.5mb
     Z  19s     19.51um          6.7Msz
PRI   105.25  49 ePdiff46 54.20   0.6
                ePP    51 28.00
                ePKKP  02 34.50
FLN   105.26 325 ePdiff46 52.80  -0.3
LSF   105.38 323 ePdiff46 53.20  -0.6
DMU   105.57 332 ePdiff46 53.60  -0.8
     1.5s    750.00nm          7.2mb
DDK   105.63 332 ePdiff46 54.10  -0.5
     1.5s    550.00nm          7.1mb
FRI   105.64  48 iPdiff46 55.00  -0.1
                ePKKP  02 34.50
GRR   105.67 325 ePdiff46 55.00   0.0
CAF   105.70 321 ePdiff46 55.10  -0.2
     1.5s    135.60nm          6.5mb
DLE   105.78 332 ePdiff46 54.30  -1.0
     1.5s    490.00nm          7.0mb
RJF   105.85 322 ePdiff46 56.10   0.2
LPF   105.96 325 ePdiff46 56.40   0.1
BMN   105.99  44 Pdiff 46 57.60   0.8
MNA   106.18  46 iPdiff46 45.20 -12.5X
                eSP    59 48.00
MFF   106.20 323 ePdiff46 57.50   0.1
     1.2s    160.60nm          6.6mb
LPO   106.36 321 ePdiff46 58.10  -0.1
     1.3s     62.40nm          6.2mb
SYP   106.38  51 ePKP   50 33.00 -32.9X
                ePPP   53 41.00
                eSP    59 45.00
SYP   106.38  51 ePdiff47 01.00   2.3X
LRM   106.51  37 ePdiff46 59.40   0.2
LFF   106.52 322 ePdiff46 59.00   0.2
     1.5s    180.80nm          6.6mb
FFC   106.62  26 ePdiff46 58.30  -0.8
     0.9s     58.00nm          6.3mb
FCC   106.69  20 ePdiff46 58.00  -1.2
ISA   107.08  49 ePdiff47 03.00   1.3
ISA   107.08  49 PKP    51 07.00  -0.1
                ePPP   53 42.00
                eSP    59 54.00
EUR   107.27  44 iPdiff47 02.60  -0.1
     0.3s     12.88nm          6.2mb
MLS   107.28 320 ePdiff47 05.00   2.7X
                e      51 41.80
SET   107.32 312 iPdiff47 20.50  17.7X
FRB   107.70   6 ePdiff47 02.50  -1.1
EPF   107.71 320 ePdiff47 04.70   0.4
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05d 03h

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        1.3s    57.70nm          6.2mb
PAS   107.91  50 ePKP   50 20.00 -48.6X
                 ePPP   53 43.00
                 eSP    00 02.00
PAS   107.91  50 iPKP   50 40.00 -28.6X
      Z  20s     9.00um          6.3Msz
PAS   107.91  50 ePdiff47 04.00  -1.3
        1.4s   100.00nm          6.5mb
SBB   107.96  50 PKP    50 36.00 -32.8X
                 ePPP   53 43.00
                 eSP    00 03.00
SBB   107.96  50 ePdiff47 05.00  -0.6
MWC   107.96  50 ePdiff47 06.00   0.2
MWC   107.96  50 PKP    51 09.00   0.0
                 ePPP   53 45.00
                 eSP    00 03.00
ATE   108.35 320 ePKP   51 12.10   2.9X
VAL   108.38 332 ePdiff47 06.00  -0.9
                 iS     57 11.00
MADF  108.39 321 ePKP   51 12.10   2.8X
GSC   108.47  49 ePdiff47 08.00   0.1
GSC   108.47  49 PKP    51 13.00   3.2X
                 ePPP   53 41.00
                 eSP    59 50.00
RVR   108.58  50 ePdiff47 11.00   2.8X
RVR   108.58  50 PKP    51 04.00  -5.9X
                 ePPP   53 46.00
                 eSP    00 09.00
EBR   108.70 318 ePdiff47 09.00   0.4
                 e      51 13.00
                 e      51 53.00
                 e      54 56.00
ABA   108.80 313 ePKP   51 09.00  -1.2
SLBC  109.05  51 ePdiff47 12.60   2.2X
SLBC  109.05  51 ePKP   51 11.50   0.7
                 eS     51 56.00
PLM   109.23  51 ePdiff47 12.00   0.6
PLM   109.23  51 PKP    51 12.00   0.6
                 ePPP   53 59.00
                 eSP    00 07.00
SNA   109.28 197 ePdiff47 28.00  17.5X
        0.6s    13.33nm
TPC   109.53  50 PKP    50 22.00 -49.8X
                 ePPP   53 47.00
                 eSP    00 19.00
TPC   109.53  50 ePdiff47 12.00  -0.6
BAR   109.64  51 ePdiff47 14.00   0.9
BAR   109.64  51 PKP    50 59.00 -13.0X
                 ePPP   53 47.00
                 eSP    00 08.00
LGR   109.81 321 ePdiff47 19.00   5.5X
BDW   109.87  39 Pdiff 47 16.00   1.9
        1.0s    45.00nm
ALI   110.56 316 iPdiff47 16.00  -0.9
                 i      51 52.00
TOL   112.16 319 iPdiff47 25.00   0.9
TAM   112.22 299 iPdiff47 20.50  -4.4X
ALM   112.66 315 iPKPc 51 19.50   1.9
        1.3s    10.00nm
                 i      52 09.00
                 i      52 24.10
                 i      58 57.60
CRT   113.28 316 iPKPd 51 01.80 -17.1X
                 iPP    51 20.00
MAL   114.07 316 Pdiff 47 33.00   0.4
                 i      51 20.00
                 i      52 29.00
                 i      01 00.00
SFS   115.44 317 ePdiff47 40.00   1.4
                 e      51 24.00
                 i      52 10.00
                 i      55 38.00
                 i      58 18.00
                 i      01 10.00
                 i      05 24.00
LIS   116.09 320 ePKP   51 24.00  -0.1
ALQ   116.10  45 ePdiff47 43.00   1.1
      Z  20s    14.54um          6.6Msz
IFR   116.23 314 iPKPc 51 25.50   0.7
LHC   116.61  24 ePdiff47 44.00   0.5
LHC   116.61  24 iPKPd 51 24.40  -0.3
        1.2s  1172.00nm
SCH   116.65   7 ePdiff47 52.00   8.4X
ACO   119.93  39 e(Pdif48 03.80   5.2X
        0.7s     7.80nm
ACO   119.93  39 ePKP   51 28.50  -3.0X
                 i      51 31.40
OZO   120.94  41 e(Pdif48 08.60   5.4X
OZO   120.94  41 ePKP   51 32.50  -1.0
RRO   121.20  40 ePKPd 51 33.50  -0.5
        1.2s  1909.30nm
                 e      54 09.50
MZX   121.87  56 ePKP   51 34.20  -1.3
TUL   122.50  38 ePdiff48 11.40   1.4
        1.0s     5.90nm
TUL   122.50  38 ePKP-  51 52.00  15.6X
        1.0s  1288.20nm
      Z  19s    10.60um          6.5Msz
RLO   122.79  37 e(Pdif48 13.70   2.4X
RLO   122.79  37 e(PKP)51 35.00  -2.0
GBO   122.91  37 e(Pdif48 16.20   4.3X
GBO   122.91  37 e(PKP)51 34.90  -2.3
JCT   123.24  45 ePdiff48 16.00   2.5X
JCT   123.24  45 iPKP   51 38.00  -0.1
      Z  20s    12.41um          6.6Msz
OTT   123.90  16 ePKP   51 38.00  -0.8
        1.1s  1584.00nm
BHO   124.08  39 e(PKP)51 39.60   0.1
MNT   124.36  15 ePKP   51 45.00   5.3X
        1.2s   960.00nm
STJ   124.44 357 ePKP   51 35.00  -4.8X
        1.3s  1966.00nm
ATX   124.69  44 iPKP   51 41.50   0.6
HKT   126.30  43 iPKP   51 45.20   1.3
KIC   126.68 284 ePdiff48 47.20  18.0X
                 e      51 24.20
TEN   126.96 315 iPKP   51 47.60   2.4X
                 iPP    53 39.70
GMTN  128.48  17 ePKP   51 36.40 -11.4X
                 i      51 45.90
                 i      54 02.30
DXM   129.23  57 PKP    51 36.00 -14.2X
IIC   129.36  56 PKP    51 38.10 -12.4X
BLA   129.51  25 ePdiff48 43.60   2.4X
                 pP     51 06.80
                 i      51 48.80
                 pPKP   54 12.50
                 iPKS   55 14.80
IIM   129.64  57 PKP    51 37.00 -13.9X
IIP   129.85  57 PKP    51 38.50 -12.9X
III   129.85  58 PKP    51 36.50 -14.8X
TPM   129.90  57 PKP    51 39.00 -12.3X
ACX   130.20  60 ePKP   51 41.40 -10.3X
IIT   130.51  57 PKP    51 40.90 -11.7X
VHO   132.68  58 PKP    51 44.00 -12.6X
PBJ   134.18  58 PKP    51 45.00 -14.2X
CR7   135.62  55 PKP    51 54.00  -8.2X
OZC   135.69  56 PKP    51 49.40 -12.8X
CR6   135.72  56 PKP    51 46.80 -15.6X
CR5   135.88  56 PKP    51 50.70 -12.0X
CZC   136.01  56 PKP    51 49.50 -13.3X
COM   136.98  56 PKP    51 56.00  -8.8X
TMU   146.16 157 iPKPc 52 20.40   0.5
SRA   146.57  58 ePKP   52 22.00   0.6
SJS   146.97  58 iPKPd 52 22.90   0.8
LCR   147.12  58 iPKPd 52 23.50   1.2
VBA   149.78 171 iPKPc 52 25.00  -0.6
TACH  151.21 154 iPKPc 52 27.50  -0.4
UPA   151.21  54 iPKPd 52 27.50  -0.8
        1.2s   187.50nm
      Z  20s    12.77um          6.7Msz
      N  20s    16.31um
                 i      52 30.00
                 i      54 59.40
RFA   151.22 159 ePKPd 52 27.50  -0.4
PCH   151.42 154 iPKPc 52 28.50   0.2
SAN   151.50 154 ePKP  52 28.00  -0.3
PEL   151.75 154 iPKPd-52 28.50  -0.2
ROCH  151.76 153 iPKPd 52 29.00   0.1
FCH   151.77 155 iPKPd 52 29.00  -0.1
SJG   152.13  21 iPKPd 52 29.00  -0.6
        1.4s   976.74nm
      Z  20s    10.64um          6.6Msz
JACH  152.19 153 iPKPc 52 29.60   0.2
MDZ   152.75 156 iPKP  52 31.00   0.9
LPA   153.32 177 iPKPd-52 32.00   1.3
        1.0s  1152.00nm
      Z  22s    22.96um          6.9Msz
RTCV  153.77 156 ePKPd 52 29.00  -2.5
ZON   153.99 155 ePKP  52 32.00   0.2
CFA   154.11 156 ePKPd 52 29.40  -2.6
RTLL  154.26 155 ePKPc 52 29.60  -2.6
BPA   154.36  13 ePKPd 52 32.30  -0.3
SEG   155.05  12 iPKPd 52 33.30  -0.2
SFG   155.26  11 ePKP  52 34.00   0.2
PAG   155.38  13 ePKP  52 34.50   0.4
MGG   155.56  12 ePKPd 52 34.30   0.1
MDN   156.13  12 ePKP  52 35.00   0.0
LGN   156.45  40 ePKP  52 41.40   6.0X
VCA   156.61 153 iPKPd 52 36.40   0.9
FDF   156.75  12 ePKP  52 36.20   0.4
CRM   156.78  12 ePKP  52 35.90   0.1
BIM   156.98  12 ePKP  52 36.40   0.3
MVM   156.97  12 ePKP  52 36.10   0.0
PSO   157.01  67 ePKP  52 39.00   2.3
BMG   157.40  48 ePKP  52 37.00   0.2
SLW   157.49  12 ePKP  52 37.00   0.3
TOV   157.64  37 iPKPd 52 37.00   0.0
UAV   157.68  42 iPKPd 52 37.70   0.5
        0.6s   171.40nm
SDV   157.81  41 iPKPd 52 37.70   0.4
        0.7s   300.00nm
CYA   157.88 157 ePKPd 52 36.80   0.0
FUO   157.91  53 iPKP  52 37.00  -0.6
BOG   158.15  55 ePKP  52 38.00   0.1
CAR   158.62  30 iPKPd 52 38.00  -0.1
        1.0s   168.00nm
                 iPP    53 18.00
ANT   159.40 140 iPKPd-52 40.00   1.5
                 iS     02 44.50
RDJ   160.74 219 iPKPd 52 41.60   1.7
SLA   161.28 153 iPKPc 52 42.00   1.3
                 sS     03 03.00
                 SS     07 06.00
ITR   162.38 267 iPKP  52 42.10   0.3
HJA   162.62 151 ePKPd 52 44.60   2.8X
VAO   162.76 210 ePKP  52 42.90   0.8
        1.4s   300.60nm
                 e      52 45.90
YJA   163.44 148 ePKPd 52 45.20   2.0
LPB   165.72 127 iPKPd-52 47.00   1.7
        1.0s  1470.00nm
                 iSKS   03 24.00
BAO   169.04 227 iPKPd 52 46.80  -0.4
      S.D. = 1.0  on 600 of 683 obs.

   MAR  19, 1984  20h 28m 38.24± 0.05s
   40.341 N ± 1.5km   63.359 E ± 0.8km
   DEPTH =  14.5km  ( 26 depth phases)
   6.5mb (119 obs.)  7.0Msz ( 28 obs.)
 UZBEK SSR                          (339)
      At least 100 people injured and
      extensive damage (IX) in the
      Gazli area. Damage (VII-VIII) at
      Dzhangeldy and (VII) in the
      Bukhara area. Felt (VII) at
      Chardzhou; (VI) at Navoi and
      Mary; (V-VI) at Samarkand: (V)
      at Dzhizak and Ashkhabad; (IV)
      at Tashkent and Dushanbe; (III-
      IV) at Andizhan; (III) at
      Leninabad, Ura-Tyube, Chimkent
      and Dzhambul; (II-III) at
      Kulyab, Khorog and Frunze. Felt
      also at Moshhad, Iran.

SAM     2.87 102 iPnd  29 24.90   0.6
                 iS*    30 03.70
                 iSg    30 13.30
DSH     4.56 111 iPnc  29 49.00   0.7
                 ePg    30 08.00
                 eSg    31 14.00
ASH     4.57 240 iPnd  29 49.00   0.6
                 eSn    30 42.00
TAS     4.61  76 iPnc  29 49.00  -0.1
                 eSn    30 39.20
                 iSg    31 14.00
VAN     4.73 241 ePnc  29 49.70  -1.1
                 eSn    30 44.30
MHI     5.05 218 iPc+  29 55.50   0.2
GAR     5.53 102 ePn   30 02.20   0.0
                 eS*    31 22.50
KUL     5.54 114 iPn   30 03.00   0.8
                 iPg    30 28.40
                 iSn    31 11.40
KAT     5.58 260 iPnc  30 03.50   0.7
ANR     6.87  84 iPnc  30 19.80  -1.1
                 eSn    31 42.00
                 eSg    32 25.00
KHO     6.98 112 iPnc  30 22.10  -0.6
        6.0s  *******nm          7.9mb X
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KHI	7.24	213	iP+	30	25.30	-0.9
FRU	8.80	70	iPc	30	45.40	-2.5
			iS	32	25.00	
NRN	9.64	79	iPc	30	55.80	-3.9X
			eS	32	46.00	
KSH	9.74	91	iPc	30	59.00	-2.0
BAK	10.27	275	iPd	31	06.00	-2.1
N	10s	105.00um				
E	10s	79.20um				
			eS	33	07.00	
TEH	10.50	248	ePc	31	09.50	-1.9
QUE	10.55	163	iPd-	31	11.50	-0.6
			eS	33	08.00	
AAA	10.56	69	iPd	31	10.60	-1.5
			iS	33	10.40	
AAA	10.56	69	P	31	14.00	1.9
TLG	10.87	78	iPc	31	12.10	-4.3X
			iS	33	22.00	
SHE	11.22	276	P	31	27.00	5.9X
PRZ	11.50	74	eP	31	22.40	-2.6
	1.0s	1500.00nm			7.2mb	
			eS	33	30.00	
MAK	12.21	288	iPc	31	29.20	-5.2X
	1.0s	9500.00nm			8.0mb X	
			iS	33	46.80	
KRV	12.97	277	iP	31	39.00	-5.6X
			iS	34	04.00	
GRS	13.10	272	iPc	31	41.00	-5.5X
	1.8s	970.00nm			6.6mb	
			eS	34	04.00	
TAB	13.41	266	iPc+	31	47.70	-2.9
GRO	13.52	289	iPc	31	47.00	-4.8X
			iS	34	21.00	
TIF	14.08	282	P	31	55.20	-4.1X
MTA	14.08	282	iPc	31	55.20	-4.0X
KER	14.24	250	eP	32	01.00	-0.5
ERE	14.40	275	iPc	32	00.00	-3.6X
			iS	34	45.00	
LEN	14.84	278	eP	32	07.00	-2.4
	2.0s	1800.00nm			6.2mb	
BKR	15.04	282	iPd	32	09.00	-3.0X
Z	18s	4494.00um				
			iS	34	54.00	
PYA	15.49	290	iPc	32	12.50	-5.2X
	1.0s	1450.00nm			6.2mb	
Z	13s	35.00um			6.7MszX	
N	13s	27.00um				
E	13s	14.00um				
			eS	35	06.00	
SEM	15.53	44	ePc	32	13.20	-4.9X
			eS	35	03.00	
NDI	16.28	131	iPd	32	23.80	-4.0X
	1.0s	800.00nm			5.8mb	
			iS	35	16.00	
ARU	16.37	351	ePc	32	24.00	-4.9X
			eS	35	22.00	
SVE	16.58	355	iPc	32	27.00	-4.5X
			iS	35	31.00	
BHD	16.74	251	iPd	32	33.00	-0.6
			i	34	42.00	
			iS	35	37.00	
			iPcP	37	27.00	
			iLQ	37	49.00	
			i	38	36.00	
			iSS	44	34.00	
SOC	17.86	288	iPc	32	46.00	-1.7
	2.0s	2900.00nm			6.1mb	
			eS	36	08.00	
WMO	18.38	71	iPc	32	52.00	-2.2
ANN	19.67	292	iPc	33	07.00	-2.6
	1.5s	*******nm			7.0mb	
			iS	36	49.00	
NVS	19.72	36	ePc	33	06.50	-3.4X
	1.0s	2800.00nm			6.5mb	
			iS	36	40.50	
ELT	20.20	43	iPc	33	12.80	-2.2
			iS	36	55.00	
KVT	20.69	281	iPc	33	19.70	-0.6
SIM	21.94	292	iPc	33	31.00	-1.8
Z	20s	408.00um			6.8Msz	
N	20s	680.00um				
E	20s	384.00um				
			iPP	33	54.00	
			iS	37	30.00	
DMN	21.99	119	iPc	33	33.60	-0.1
KKN	21.99	118	iPc	33	33.20	-0.5
PKI	22.22	118	iPc	33	36.00	-0.1
MOS	22.90	321	iPc	33	42.00	-0.2
	2.0s	6200.00nm			6.8mb	
			ePP	34	12.00	
			iPcP	37	34.00	
			iS	37	47.00	
OBN	23.12	319	iPc	33	44.00	-0.3
	1.7s	1700.00nm			6.3mb	
Z	18s	1008.00um			7.3Msz	
N	18s	1113.00um				
E	18s	987.00um				
			ePP	34	12.00	
			iS	37	56.00	
HRI	23.15	261	iP	33	47.00	2.0
POO	23.54	154	iPc	33	50.70	1.9
KDE	24.12	283	iP	33	53.70	-0.5
JER	24.24	258	iPc	33	52.20	-3.4X
LSA	25.02	106	Pc	34	05.50	2.0
PRNI	25.10	255	eP	34	06.00	2.2
GPA	25.12	281	iP	34	03.50	-0.5
HRT	25.51	282	iP	34	07.30	-0.3
BCK	25.59	274	iP	34	07.00	-1.4
KIS	25.67	297	iPd	34	08.00	-1.0
Z	21s	363.00um			6.9Msz	
N	19s	305.00um				
E	22s	482.00um				
			iPP	34	53.00	
			iPPP	34	58.00	
			iS	38	39.00	
			isS	38	45.00	
			iSSS	40	00.00	
ISK	25.92	283	iPd	34	11.80	0.5
CFR	26.16	292	iPc	34	13.50	0.0
PSN	26.23	289	iPc	34	15.00	0.9
TLB	26.27	291	iPc	34	14.70	0.1
HYB	26.36	146	iPc	34	16.00	0.4
	1.0s	2280.00nm			6.8mb	
			iS	38	44.00	
BIR	26.51	295	iP	34	18.00	1.2
DST	26.53	280	iPc	34	17.20	0.1
IAS	26.57	297	eP	34	18.00	0.7
KCT	26.60	281	iP	34	17.30	-0.3
FOC	26.83	294	iP	34	16.00	-3.6X
BNT	26.90	282	iPc	34	21.30	0.9
ODB	26.92	294	eP	34	24.00	3.5X
EDC	26.95	282	iPd	34	20.70	-0.1
BAC	27.01	295	eP	34	09.00	-12.4X
VRI	27.14	294	eP	34	23.00	0.4
ISR	27.30	292	iPc	34	25.50	1.4
KGT	27.34	282	iP	34	25.30	0.9
CVO	27.53	294	iPc	34	27.00	0.9
JMB	27.53	287	iPd	34	27.00	0.9
MNK	27.54	312	iPc	34	26.00	-0.1
			ePP	35	12.00	
			ePPP	35	32.00	
			ePcP	37	48.00	
			eS	39	03.00	
MLR	27.71	293	iPd	34	28.00	0.2
BUC1	27.72	291	iPc	34	29.00	1.2
CGN	27.76	290	ePc	34	28.50	0.4
IZM	27.86	278	iPc	34	29.00	-0.2
GTA	27.87	80	iPc	34	30.40	1.0
SHL	27.96	113	iP	34	29.80	-0.5
			iS	39	08.00	
HLW	28.07	258	iPc	34	30.00	-1.1
MOY	28.18	54	iPc	34	32.90	1.1
	1.4s	310.00nm			5.9mb	
EZN	28.21	281	iPd	34	32.00	-0.3
PUL	28.31	324	iPc	34	33.00	0.0
	1.3s	5800.00nm			7.2mb	
Z	18s	480.00um			7.1Msz	
N	18s	200.00um				
E	18s	420.00um				
			esP	34	40.00	
			iS	39	20.00	
LRR	28.32	293	P	34	33.00	-0.3
DIM	28.33	286	iP	34	34.00	0.7
CMP	28.36	293	ePc	34	34.00	0.4
PVL	28.47	288	iPc	34	35.00	0.4
KDZ	28.57	285	iPc	34	36.00	0.5
DRA	28.95	292	eP	34	44.00	5.1X
PLD	28.97	286	eP	34	39.00	0.0
LVV	29.04	302	iPc	34	39.90	0.2
			iPPP	35	50.00	
			iS	39	23.60	
CJR	29.29	296	eP	34	42.50	0.5
BMR	29.33	298	ePc	34	43.00	0.7
GBA	29.36	151	Pd	34	41.60	-1.2
	1.7s	363.00nm			5.9mb	
ZAK	29.47	57	iPc	34	44.60	1.1
	1.7s	2120.00nm			6.7mb	
MMB	29.77	286	iPc	34	46.00	-0.4
SRS	29.97	285	ePn	34	48.00	-0.1
VTS	29.98	288	iPc	34	49.00	0.9
CEI	30.04	298	eP	34	52.00	3.4X
UZH	30.14	300	iPc	34	49.00	-0.5
Z	19s	168.00um			6.7Msz	
			ePP	35	45.50	
			iPPP	35	55.00	
			iS	39	50.00	
PAIG	30.17	282	iPnc	34	49.20	-0.6
SOH	30.21	284	iPnc	34	50.00	-0.3
IRK	30.30	53	iPc	34	50.00	-0.9
	2.0s	970.00nm			6.3mb	
Z	10s	605.00um			7.5MszX	
N	10s	185.00um				
E	10s	585.00um				
			ePP	35	42.00	
			ePcP	37	58.00	
			eS	39	50.00	
			eSSS	41	47.00	
THE	30.54	284	iPnc	34	52.00	-1.1
ATH	30.66	279	iPc	34	54.20	0.0
			iS	40	00.00	
VAY	30.68	285	iPc	34	54.20	-0.1
TIM	30.99	294	iPc	34	57.20	0.2
WAR	31.14	307	eP+	34	57.00	-1.2
			e	35	36.00	189kmX
			e	40	00.00	
			e	40	28.00	
			e	41	00.00	
NUR	31.19	323	iPc+	34	58.10	-0.5
	0.8s	953.50nm			6.7mb	
			i	35	01.20	11km
			eS	40	04.00	
JOS	31.31	300	iPc	34	59.80	0.0
SKO	31.38	287	iPc	35	00.20	-0.3
			i	35	04.00	13km
			iPP	36	06.00	
			iS	40	05.50	
SUF	31.48	328	iPc	35	00.80	-0.4
	0.6s	290.10nm			6.4mb	
SPC	31.49	301	eP	35	02.20	0.5
	1.4s	5274.00nm			7.2mb	
KJF	31.61	331	iPc+	35	01.40	-0.9
	0.6s	824.00nm			6.8mb	
			i	35	06.00	16km
			ePPP	37	00.00	
			eS	40	00.00	
KRA	31.70	303	iPc	35	02.50	-0.7
	1.0s	2862.00nm			7.1mb	
			i	35	07.00	16km
			i	35	20.10	
			iS	40	09.00	
PSZ	31.76	298	ePc	35	04.00	0.2
APA	31.84	339	iPc	35	03.70	-0.6
	0.7s	860.00nm			6.8mb	
Z	11s	670.00um			7.6MszX	
			iPP	36	05.00	
			iPcP	37	52.00	
			iS	40	13.00	
LZH	31.90	84	iPc+	35	06.00	0.7
	7.0s	8979.00nm			6.8mb X	
N	11s	20.90um				
E	13s	407.00um				
			pP	35	16.00	36kmX
			PPP	36	25.00	
			PcP	37	59.00	
			S	40	09.00	
			sS	40	27.00	
NRI	31.92	16	iPc	35	05.00	0.0
	1.3s	1000.00nm			6.6mb	
N	14s	135.00um				
E	13s	168.00um				
			ePPP	35	20.00	
			iS	40	14.00	
OHR	32.03	286	iP	35	05.30	-1.0
			i	35	09.70	15km
BUD	32.37	298	iPc	35	09.10	0.0
KOD	32.49	153	iPc	35	11.60	0.8
	1.0s	806.00nm			6.6mb	
SRO	32.83	298	iPc	35	13.20	0.2
			iPP	36	23.00	
			iS	40	25.00	
TTG	32.88	288	iPc	35	13.10	-0.4

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                e      35 29.00  65kmX
                eS     41 26.50
ZST   33.61 299 iPc    35 20.50   0.6
                iPP    36 30.30
                eS     40 49.30
                i      44 05.10
CD2   33.91  93 iPc    35 24.00   1.2
ARO   33.93 218 iP+    35 25.00   1.9
KSP   34.03 304 iPc    35 23.50   0.0
      1.2s  1977.00nm          6.9mb
                i      35 28.00  15km
VIE   34.10 299 iP+    35 25.10   1.0
      7.0s  *******nm          7.4mb X
                iPP    36 43.70
                isS    41 07.50
VKA   34.13 299 iPc    35 24.70   0.3
      7.0s  *******nm          7.4mb X
    Z  11s   112.50um          6.9MszX
                iPP    35 42.40
                iS     40 51.70
                isS    41 06.20
LCI   34.32 285 iPc    35 23.20  -2.8
UPP   34.32 320 iPc    35 24.50  -1.3
                iPP    36 33.00
                iS     40 51.00
BRT   34.73 286 iPc    35 28.50  -1.1
KEV   35.04 339 iPc+   35 31.80  -0.1
      0.5s   519.30nm          6.7mb
                i      35 36.50  16km
                ePP    36 40.00
                eS     41 00.00
BTO   35.17  74 iPc    35 34.50   0.9
                S      41 07.50
PRU   35.18 303 iPc    35 33.70   0.3
      2.0s  3886.70nm          6.9mb
    Z  15s   178.00um          6.9MszX
                PP     36 49.00
                S      41 00.00
ORI   35.50 285 iPc    35 36.20   0.0
BRG   35.52 304 iPc+   35 36.00  -0.2
                i      35 40.50  15km
                iS     41 13.00
LJU   35.59 296 iPc    35 37.40   0.4
                eSn    41 12.00
                eSS    43 31.00
KMR   35.61 299 iP+    35 37.30   0.3
CEY   35.71 295 iPc    35 38.40   0.4
KHC   35.87 301 iPc    35 39.20  -0.1
      1.2s   950.00nm          6.6mb
    N  10s    51.70um
                PP     36 56.00
                S      41 21.00
BRL   35.88 307 iPc    35 39.70   0.4
BRN   35.94 307 iPc    35 40.20   0.5
CLL   36.09 305 iPc    35 40.70  -0.4
      1.0s   920.00nm          6.6mb
                eS     41 16.00
KMI   36.12 103 iPc+   35 42.00   0.1
      7.0s     7.60nm          3.7mb X
    E  12s    96.00um
                S      40 59.00
                sS     41 29.00
TRI   36.18 295 iP     35 41.60  -0.2
                iPP    36 56.30
                iS     41 18.00
SGO   36.20 286 iPc    35 42.50   0.4
HHC   36.24  73 iPc    35 43.40   0.8
KBA   36.25 298 iPc    35 42.40  -0.3
                i      35 44.10   6km
                i      35 45.50
                i      36 57.80
                iS     41 20.30
                i      41 53.30
HFS   36.31 320 iP     35 42.00  -0.8
    Z  22s   942.30um          7.5Msz
WET   36.32 301 eP     35 42.80  -0.3
                eS     41 28.00
COP   36.46 312 iPc    35 44.10   0.0
      1.4s   465.12nm          6.1mb
                iS     41 25.00
BHG   36.48 299 iPc    35 44.60   0.2
      2.2s  1400.00nm          6.4mb
XAN   36.52  85 Pc     35 45.20   0.2
                S      41 32.00
DUI   36.53 288 iPc    35 46.00   1.1
BOD   36.58  44 iPc    35 43.50  -1.6
      1.0s   640.00nm          6.4mb
SGG   36.66 288 iPc    35 46.20   0.1
RCI   36.68 282 eP     35 46.50   0.3
MSI   36.72 283 eP     35 47.80   1.3
OVO   36.80 287 iPc    35 47.80   0.6
HOF   36.87 303 iPc    35 47.60   0.0
                eS     41 35.00
NPL   36.89 287 eP     35 48.90   1.0
ALP   36.90 291 iPc    35 44.87  -3.0X
MOX   37.01 304 iPc+   35 49.20   0.4
      2.9s  6667.00nm          6.9mb
                i      37 00.00 355kmX
                i      38 00.00
                iS     41 35.00
                iSS    44 05.00
PRO   37.11 293 eP     35 49.10  -0.6
AQU   37.12 290 iPc    35 50.50   0.6
CHG   37.30 115 iPd    35 51.50  -0.1
      1.1s    70.25nm          5.4mb X
                eS     41 12.00
GRF   37.35 302 iPc    35 53.80   [illegible]
      2.5s  3337.00nm          6.7mb
    Z  19s   113.00um          6.7Msz
                ipP    35 58.60  16km
                esP    36 01.50
                ePP    37 16.30
                eS     41 48.80
POI   37.40 290 iPc    35 52.50   0.4
FUR   37.49 300 iPc    35 53.30   0.4
      1.2s  4130.00nm          7.1mb
    Z  10s   159.00um          7.1MszX
                eS     41 43.00
CTI   37.57 296 iPc    35 53.50  -0.2
MNS   37.63 290 iPc    35 54.00  -0.1
NB2   37.67 321 P      35 52.90  -1.4
GAP   37.73 299 eP     35 54.60  -0.4
                i      35 59.20  16km
RMP   37.77 289 iPc    35 55.50   0.2
                iPP    37 09.00
                iS     40 46.00
                iSS    42 26.00
RDP   37.77 289 iPc    35 55.20  -0.2
TIY   37.83  78 iPc    35 57.00   1.1
                PP     37 25.00
                S      41 38.00
OGA   37.86 298 iPc    35 55.80  -0.4
HAM   37.90 309 iPc    35 57.40   1.2
GIB   37.94 283 iPc    35 55.50  -1.4
AAE   38.09 222 iP     36 01.30   2.7
FIR   38.31 293 eP     36 01.00   1.2
                iS     42 20.00
GYA   38.34  98 Pc     36 01.00   0.6
                S      41 49.00
SAL   38.43 296 iPc    36 01.00   0.3
OSS   38.48 298 eP+    36 01.00  -0.5
SAX   38.92 299 eP+    36 04.80  -0.5
VDL   38.98 297 eP+    36 05.10  -0.5
ERC   38.98 284 eP     36 05.00  -0.5
TNS   39.06 303 iPc    36 06.60   0.5
                iPcP   37 39.10
                eS     42 16.00
                e      44 57.40
LLS   39.23 298 eP+    36 06.80  -0.9
SLE   39.40 300 eP+    36 08.50  -0.4
BUH   39.42 301 iPc    36 09.40   0.3
TMA   39.46 297 eP+    36 08.50  -1.1
ZUL   39.52 299 eP+    36 09.20  -0.7
VG1   39.56 295 iPd    36 12.00   1.8
TUP   39.69  50 ePc    36 11.90   0.8
      1.6s   580.00nm          6.0mb
FEL   39.70 300 iP     36 10.80  -0.7
GWF   39.77 302 iPc    36 12.40   0.4
BNS   39.78 305 iPc    36 12.40   0.4
      1.4s  1620.00nm          6.5mb
                iPP    37 43.00
                iS     42 28.50
BJI   39.84  73 Pc+    36 13.50   0.9
      1.7s   259.00nm          5.6mb
                PP     37 45.00
                eS     42 09.00
KHT   39.88 119 iPc    36 14.80   1.7
WTS   39.89 306 iPc    36 13.30   0.5
      0.9s   700.00nm          6.3mb
                e      36 16.50  11km
WIT   39.90 308 iPc    36 13.50   0.6
                e      36 17.50  14km
MMK   40.09 297 eP+    36 13.80  -1.1
CDF   40.09 301 iPc    36 14.60  -0.1
      1.2s   650.90nm          6.2mb
BBS   40.11 299 iP     36 14.10  -0.7
ORO   40.17 296 eP     36 06.00  -9.4X
ECH   40.20 301 iPc    36 15.50  -0.1
NST   40.28 117 eP     36 18.00   1.6
CVF   40.31 292 iPc    36 16.40  -0.1
      1.2s  1720.20nm          6.6mb
BAF   40.38 300 iPc    36 16.60  -0.5
KHE   40.45 359 iPc    36 19.00   1.9
      1.7s  4800.00nm          6.9mb
                iPP    37 48.00
DIX   40.46 297 eP+    36 17.50  -0.5
BER   40.48 320 iPc    36 17.90   0.3
BSF   40.52 300 iPc    36 18.00  -0.2
ENN   40.59 305 ePc    36 18.50  -0.1
      0.8s   279.00nm          6.0mb
                e      36 23.50  17km
WLF   40.61 303 P      36 21.00   2.2
                PP     37 50.00
                S      42 16.00
HAU   40.78 300 iPc    36 20.10  -0.1
      1.2s   836.80nm          6.3mb
EMS   40.79 297 eP+    36 19.90  -0.7
DBN   40.88 307 iP+    36 22.00   1.1
    Z  19s   218.00um          7.0Msz
    N  19s   583.00um
                e(PP)  37 45.00
                eS     42 38.00
                eSS    45 30.00
DOU   41.54 304 Pc+    36 26.80   0.4
                PP     38 01.00
                S      42 19.00
UCC   41.57 305 P      36 27.30   0.7
      1.4s   882.00nm          6.3mb
                PP     38 02.00
                S      42 22.00
FRF   41.60 294 iPc    36 27.10   0.1
      1.2s  1534.30nm          6.6mb
LMR   41.76 293 iPc    36 28.20  -0.1
      1.8s  2292.90nm          6.6mb
LRG   41.83 294 iPc    36 29.10   0.2
      1.2s  1115.80nm          6.5mb
PCT   41.85 117 ePc    36 31.00   1.7
TIA   41.87  78 iPc    36 30.50   1.2
                PP     38 12.00
                S      42 48.00
WHN   42.17  87 iPc    36 32.80   1.0
CDR   42.19 294 iPc    36 32.00   0.2
NNT   42.23 121 ePc    36 33.20   0.8
LBF   42.56 299 iPc    36 34.60  -0.3
      1.2s  1022.80nm          6.4mb
LOR   42.58 300 iPc    36 34.70  -0.3
      1.2s   901.90nm          6.4mb
SMF   42.74 299 iPc    36 36.50   0.2
SSF   42.86 300 iPc    36 37.00  -0.3
      1.2s   976.30nm          6.4mb
AVF   43.03 299 iPc    36 38.70   0.1
GRC   43.09 300 iPc    36 38.[illegible]  -0.9
VDM   43.24 303 eP+    36 40.00  -0.3
KBS   43.55 347 iPc    36 42.00  -0.5
MZF   43.69 299 iPc    36 44.50   0.5
TCF   43.92 299 iPc    36 46.20   0.3
DL2   44.20  72 iPc    36 48.50   0.3
                PP     38 35.00
                S      43 22.50
LSF   44.38 299 iPc    36 49.50  -0.2
      1.2s  1255.30nm          6.7mb
CAF   44.39 297 iPc    36 50.30   0.5
YAK   44.51  38 iPd    36 51.00   0.6
      1.2s  2410.00nm          7.0mb
                iPP    38 40.00
                iPPP   39 08.00
                iS     43 18.00
                iSS    46 36.00
SNY   44.59  68 iPc    36 51.00  -0.4
                PcP    38 36.00
                iS     43 18.50
TIK   44.60  24 iPc    36 51.30   0.2
      0.9s  1370.00nm          6.8mb
    Z  14s   266.00um          7.3MszX
    N  15s   144.00um
    E  13s   187.00um
                ePP    38 42.00
                eS     43 24.00
                eSPP   43 42.00
                eScS   46 45.00
RJF   44.65 298 iPc    36 52.60   0.7
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19d 20h

LDF	44.86	303	iPc	36	53.10	-0.4
NJ2	44.91	82	iPc	36	54.00	-0.1
			S	43	35.00	
BSI	45.01	132	eP	36	53.50	-1.5
FLN	45.05	303	iPc	36	54.60	-0.4
	1.2s	1348.30nm				6.8mb
LPO	45.06	297	iPc	36	55.20	0.1
	1.4s	1089.30nm				6.6mb
GZH	45.25	97	iPc	36	57.40	0.5
			PP	38	50.00	
			S	43	26.00	
CN2	45.27	64	iPc	36	56.80	0.0
			PP	38	37.50	
			eS	43	25.50	
LFF	45.29	297	iPc	36	57.30	0.4
EKA	45.32	313	P	36	56.00	-1.0
	0.9s	221.00nm				6.1mb
GRR	45.39	303	iPc	36	57.20	-0.5
	1.2s	1506.40nm				6.8mb
MFF	45.40	300	iPc	36	57.30	-0.5
	1.2s	1208.80nm				6.7mb
LPF	45.60	302	iPc	36	58.90	-0.4
	1.6s	1496.50nm				6.7mb
MLS	45.66	295	ePc	36	59.40	-0.5
MCO	45.96	98	eP	37	04.60	2.1
EPF	46.15	295	iPc	37	02.70	-1.2
HKC	46.33	97	iP	37	06.30	1.0
			iSP	37	21.00	110kmX
			i	37	32.00	
			i	39	06.00	
			eS	43	22.00	
ABA	46.50	286	iP	37	09.50	2.9X
EBR	46.81	292	eP	37	09.00	0.1
			ePP	38	56.00	
			eS	43	56.00	
SNG	46.87	125	iP	37	09.00	-0.7
	1.0s	560.00nm				6.6mb
			iS	43	22.00	
MADF	46.92	296	eP	37	09.00	-0.9
SSE	47.12	82	Pc	37	12.20	0.7
	8.0s	10.50nm				4.0mb X
	N 18s	323.00um				
			PP	39	04.00	
			S	43	57.00	
			sS	44	08.00	
			SS	47	24.00	
DDK	47.53	310	iPc	37	14.00	-0.5
	0.9s	950.00nm				6.9mb
DLE	47.67	310	iPc	37	14.90	-0.7
	1.2s	690.00nm				6.6mb
DMU	47.74	311	iPc	37	15.60	-0.6
	0.9s	570.00nm				6.6mb
MDJ	47.83	62	iPc	37	16.80	-0.2
			PP	39	11.00	
NAI	47.99	217	iPd	37	24.00	5.2X
	2.0s	411.76nm				6.2mb
QZH	48.23	91	iPc	37	20.00	-0.4
			PP	39	20.00	
			PPP	40	02.50	
			ScP	42	38.00	
			S	44	18.00	
			iSS	47	40.00	
LGR	48.32	295	iPc	37	21.40	0.5
			iPcP	38	47.00	
			iPP	39	18.50	
			iS	44	23.50	
ALI	48.44	289	iP-	37	21.50	-0.3
			iPP	39	16.50	
			iS	44	25.30	
MED	48.54	130	ePc	37	20.50	-2.3
IPM	49.14	126	ePc	37	27.90	0.5
	1.0s	297.80nm				6.3mb
			e	37	38.00	34kmX
			e	38	06.10	
			e	38	46.10	
DAG	49.34	342	iPc	37	27.00	-1.2
	2.5s	1444.44nm				6.5mb
PSI	49.37	130	ePc	37	27.90	-1.2
VLA	49.91	63	iPc	37	32.00	-1.0
	1.0s	970.00nm				6.7mb
			iPP	39	30.00	
			iS	44	46.00	
VAL	50.21	309	iP	37	33.00	-2.2
			iS	44	44.00	
ANP	50.34	89	iP+	37	38.00	1.3
			iS	44	42.00	
TOL	50.37	293	iP+	37	36.00	-0.7
			e	38	00.50	102kmX
ALM	50.49	288	iPc	37	37.00	-0.5
	1.8s	14.60nm				4.6mb X
	N 20s	2.10um				
	E 24s	1.10um				
			iPP	39	33.30	
			iPPP	40	35.70	
			iS	44	57.10	
AKU	50.66	328	iP	37	39.90	1.5
	1.0s	132.00nm				5.8mb
			i	37	44.50	15km
KLM	50.67	127	ePc	37	40.80	1.7
			e	38	34.20	245kmX
CRT	51.17	289	iPc	37	42.00	-0.8
TAM	51.40	268	iP	37	44.00	-0.9
IZU	51.75	75	eP	37	45.00	-2.1
			eS	45	10.00	
FKJ	52.11	76	eP	37	51.00	1.2
			e	58	11.00	
STS	52.29	298	iPnd	37	52.00	0.9
KGM	52.55	126	ePc	37	53.20	-0.2
	1.0s	166.20nm				5.9mb
			e	38	05.00	41kmX
			e	39	13.00	
REY	52.62	327	iP	37	55.10	1.8
			i	37	58.50	11km
PPI	52.77	131	ePc	37	53.60	-1.4
			e	47	22.00	
FKK	52.84	75	ePc	37	55.00	-0.3
			eS	45	32.00	
NGS	52.86	76	eP	37	56.00	0.5
			eS	45	31.00	
PTO	53.03	296	iPc	37	56.50	-0.2
			iPcP	39	32.00	
			iS	45	25.00	
SHN	53.08	74	ePc	37	57.00	-0.1
SFS	53.37	290	iPc	37	58.00	-1.2
			ePcP	38	20.00	
			iPP	39	57.00	
			ePPP	40	50.00	
			iS	45	10.00	
			iSS	48	08.00	
			iSSS	49	02.00	
KUM	53.45	75	eP	38	00.00	0.2
			eS	45	36.00	
HMD	53.47	72	eP	38	01.00	1.1
			eS	45	33.00	
PIP	53.55	97	eP	38	01.50	0.8
BNG	53.83	241	iPc	38	01.70	-1.1
	0.7s	177.00nm				6.2mb
OIT	53.92	74	eP	38	05.00	1.8
			eS	45	51.00	
KAG	53.93	77	eP	38	04.00	0.7
MTS	53.93	71	eP	38	04.00	0.7
			eS	45	39.00	
IFR	53.95	286	iPc	38	03.00	-0.7
SHK	54.08	73	iPc	38	03.90	-0.5
MYZ	54.41	76	eP	38	06.00	-0.9
			eS	59	14.00	
LIS	54.45	294	iPc	38	07.00	-0.1
SEY	54.62	34	iPc	38	08.10	0.1
	1.5s	900.00nm				6.6mb
	Z 14s	105.00um				7.1MszX
	N 14s	105.00um				
	E 14s	62.00um				
			ePcP	39	09.00	
			ePP	40	11.00	
			eS	45	46.10	
			eScS	47	53.00	
BAG	54.67	98	iPc+	38	08.00	-1.2
	1.0s	230.00nm				6.2mb
			iS	45	50.00	
MGD	54.89	38	iPc	38	09.80	-0.3
	1.0s	480.00nm				6.5mb
	Z 12s	254.00um				7.5MszX
	N 14s	160.00um				
	E 14s	145.00um				
			ePcP	39	06.00	
			ePP	40	12.00	
			ePPP	41	18.00	
			iS	45	48.00	
			iScS	47	54.00	
OKA	54.91	72	ePc	38	10.00	-0.5
TKM	55.18	72	eP	38	12.00	-0.6
			e	45	52.00	
HIM	55.40	71	eP	38	14.00	-0.1
YSS	55.47	55	iPc	38	14.70	0.2
	1.0s	240.00nm				6.2mb
	Z 14s	158.00um				7.2MszX
	N 14s	136.00um				
	E 14s	137.00um				
			ePP	40	21.00	
			ePPP	41	36.00	
			iS	46	00.00	
WAK	55.48	57	eP	38	15.00	0.5
			eS	45	45.00	
SUT	55.66	60	eP	38	15.00	-0.9
			eS	46	03.00	
FUK	55.93	69	eP	38	17.00	-0.9
KYO	56.07	71	eP	38	19.00	0.1
			eS	46	07.00	
OSA	56.07	71	Pc	38	19.00	0.1
			eS	46	01.00	
RMJ	56.07	58	eP	38	19.00	0.2
			e	46	11.00	
OCP	56.15	100	iP	38	35.00	15.3X
OSK	56.20	71	Pc	38	19.70	-0.3
			eS	46	14.00	
SAP	56.26	60	eP	38	19.00	-1.2
			eS	46	12.00	
HIK	56.31	70	eP	38	22.00	1.3
			e	46	13.00	
AIK	56.43	66	eP	38	21.00	-0.5
			eS	46	15.00	
HAK	56.43	61	eP	38	20.00	-1.4
			e	59	11.00	
GIF	56.62	70	ePd	38	23.00	0.1
			eS	46	19.00	
KSI	56.62	131	ePc	38	21.20	-1.9
ASA	56.63	58	eP	38	22.00	-0.9
			eS	46	15.00	
PGP	56.77	101	ePc	38	24.00	-0.1
	1.5s	33.00nm				5.1mb X
TSU	56.78	70	eP	38	26.00	2.0
AOM	56.90	62	eP	38	22.00	-2.8
			eS	59	40.00	
AKI	56.94	64	eP	38	24.00	-1.1
			eS	46	17.00	
NII	57.05	66	Pc	38	26.00	0.1
MAT	57.10	68	iPc	38	25.00	-1.4
	1.8s	1386.36nm				6.7mb
			eS	46	21.00	
MVI	57.40	82	eP	38	33.00	4.5X
HAC	57.53	62	eP	38	28.00	-1.3
URA	57.62	68	eP	38	30.00	0.1
			eS	46	31.00	
MRK	57.67	63	eP	38	29.00	-1.3
			eS	46	29.00	
ABJ	57.76	57	Pc	38	30.60	-0.2
			eS	46	31.00	
YAM	57.79	65	eP	38	31.00	-0.1
DDR	58.06	68	eP	38	32.90	-0.3
MIY	58.24	63	eP	38	34.00	-0.3
			eS	46	35.00	
UTS	58.28	67	eP	38	34.00	-0.5
			e	46	38.00	
SRY	58.31	68	eP	38	39.00	4.2X
ISN	58.37	64	eP	38	33.00	-2.1
OYM	58.38	68	eP	38	34.10	-1.3
TSK	58.61	67	eP	38	35.30	-1.6
MIT	58.78	67	eP	38	36.00	-2.0
			eS	46	45.00	
NEM	58.92	58	eP	38	36.00	-2.9
			eS	46	40.00	
KLI	58.93	130	ePc	38	34.30	-4.9X
			e(S)	42	11.10	
KYS	59.13	68	eP	38	39.00	-1.6
KUR	59.47	55	iPc	38	42.00	-0.7
	1.2s	1250.00nm				6.9mb
	Z 19s	172.00um				7.2Msz
	N 19s	164.00um				
	E 19s	282.00um				
			ePcP	39	25.00	
			ePPP	42	21.00	
			iS	46	45.00	
			eSSS	53	18.00	
NPA	59.52	207	iPd	38	44.00	0.7
			eS	47	00.00	
AVY	60.73	197	iPc	38	51.20	-0.5
GDH	61.36	339	iPc	38	54.20	-1.1
	1.0s	170.00nm				6.1mb
	Z 20s	76.60um				6.9Msz
PCR	61.64	188	eP+	38	58.00	0.0
SKR	61.70	46	iPc	38	55.60	-2.3

19d 20h

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        0.9s   310.00nm          6.5mb
      Z  13s   162.00um          7.4MszX
      N  13s   127.00um
      E  13s   151.00um
                 iS    47 24.00
PET     61.89  43 iPc   38 56.00  -3.1X
        1.0s   370.00nm          6.5mb
                 ePP   41 16.00
                 ePPP  42 44.00
                 eS    47 20.00
                 eSS   51 24.00
                 eSSS  54 10.00
ILT     62.53  22 iPc   39 02.00  -1.1
      Z  14s   260.00um          7.6MszX
      N  14s   134.00um
      E  14s   240.00um
                 iPcP  39 40.00
                 iPP   41 21.00
                 iPPP  42 48.00
                 iS    47 30.00
                 eSPP  47 52.00
                 eScS  48 56.00
                 eSS   51 40.00
TET     62.65 213 iPc   39 04.00  -0.5
                 ePP   41 29.00
                 iS    47 37.00
MBC     63.68   1 iPc   39 20.30   9.7X
BKB     63.87 117 ePd   39 17.30   4.7X
MTD     64.06 214 iPc   39 13.00  -0.9
DAV     64.36 103 iP+   39 15.00  -0.9
TEN     64.71 287 iPd   39 19.60   1.6
                 iPP   41 39.50
                 iPPP  43 03.00
                 eS    47 23.00
                 iScS  48 53.40
                 eSS   51 30.10
KRI     64.97 216 iPc   39 19.00  -0.8
                 iS    48 03.00
BRW     65.05  13 iPc   39 19.50  -0.1
SJI     65.38 125 eP    39 21.30  -1.1
TRT     65.90 125 ePc   39 23.90  -1.8
DNP     68.27 123 ePd   39 40.50  -0.3
BUL     68.32 215 iPc   39 40.00  -1.1
        0.6s   222.33nm          6.5mb
      Z  18s    96.22um          7.1Msz
      N  18s    74.91um
      E  18s   164.95um
                 iPP   42 08.00
                 iS    48 46.00
MKS     68.52 117 ePd   39 44.00   1.7
KIC     69.25 260 iPc   39 45.20  -1.7
                 S     48 53.20
FRB     69.48 339 ePc   39 47.00  -0.6
SMY     69.68  37 eP    39 48.50  -0.5
      Z  20s   120.00um          7.1Msz
INK     70.95   7 iPc   39 56.40   0.0
        0.8s   610.00nm          6.8mb
COL     72.29  13 iP    40 04.70   0.2
                 e     49 32.00
FBA     72.29  13 iPc   40 04.50   0.0
WSI     72.35 120 ePd   40 03.50  -2.1
TTA     72.36  18 eP    40 05.40   0.3
SLR     73.40 213 iPc+  40 11.00  -0.6
        1.4s   779.07nm          6.6mb
      Z  18s    53.26um          6.9Msz
AAI     73.55 110 eP    40 11.00  -1.6
EVA     73.76 212 iPc   40 13.20  -0.5
        1.5s   733.33nm          6.5mb
BPI     73.89 213 iPc   40 13.30  -1.2
        0.8s   249.25nm          6.3mb
KSR     74.09 214 iPc   40 15.20  -0.5
        1.0s   228.00nm          6.2mb
ADK     74.37  34 eP    40 17.00   0.2
                 pP    40 23.80  22km
KUG     74.90 118 eP    40 22.20   1.8
GUMO    74.91  85 eP+   40 20.00  -0.5
        1.2s   300.00nm          6.2mb
PJG     74.91  85 eP    40 19.40  -1.2
GUA     74.98  85 eP+   40 20.00  -0.9
        1.3s   307.69nm          6.2mb
      Z  21s    45.30um          6.7Msz
                 eS    49 55.00
PME     75.04  15 iPc   40 20.10  -0.5
        1.0s   550.00nm          6.5mb
      Z  20s    85.00um          7.0Msz
BFS     75.05 213 iPc   40 20.70  -0.5
        1.0s   570.00nm          6.6mb
PMR     75.05  15 iP    40 20.80   0.2
                 pP    40 24.80  13km
STJ     75.71 321 eP    40 24.00  -0.6
        0.9s   477.00nm          6.6mb
SEK     75.96 212 iPc   40 25.00  -1.3
SCH     76.08 333 iPc   40 26.00  -0.6
        0.8s   859.00nm          6.9mb
YKA     77.50 359 eP    40 34.70   0.4
RSNT    77.51 359 iPc   40 34.00  -0.3
        1.3s  1475.81nm          6.9mb
                 pP    40 39.60  18km
YKC     77.51 359 iPc   40 34.40   0.0
        0.5s   275.00nm          6.6mb
PCA     78.05  12 eP    40 38.80   1.3
TLE     78.18 108 ePd   40 42.00   3.2X
NAU     79.17 132 iPc   40 44.90   0.9
FCC     79.49 348 iPc   40 45.30   0.0
        0.8s   571.00nm          6.6mb
MBL     80.64 128 iPd   40 51.90   0.0
GRM     80.79 211 iPc   40 52.50   0.0
        0.6s   286.67nm          6.5mb
      Z  18s    18.04um          6.5Msz
MTN     81.98 114 eP    40 58.00  -1.0
JAY     82.00 100 eFc   41 04.00   4.7X
SUR     82.37 215 iPc   41 01.90   0.9
        1.1s   405.06nm          6.4mb
      Z  20s    90.28um          7.1Msz
HNME    83.53 328 eP    41 07.90   1.2
MEK     84.07 132 eP    41 09.50  -0.1
TZZ     84.19 102 eP    41 11.30   0.7
FFC     84.48 352 ePc   41 11.60   0.3
        0.9s   214.00nm          6.4mb
WWW     84.91  99 eP    41 15.30   1.2
BNH     86.13 329 iP    41 21.00   1.2
BAL     86.17 136 eP    41 19.40  -0.6
MNT     86.25 331 iPc   41 21.00   0.7
        1.0s   310.00nm          6.5mb
MOM     86.76  95 eP    41 24.00   0.7
EDM     86.77 358 eP    41 23.50   0.7
RSON    86.98 346 iPc   41 23.40  -0.5
        0.8s   103.52nm          6.1mb
                 pP    41 27.50  13km
MUN     86.99 137 eP    41 23.00  -1.0
OTT     87.10 332 ePc   41 25.10   0.6
        0.9s   319.00nm          6.6mb
RSNY    87.40 331 eP    41 26.80   0.8
        0.9s   350.42nm          6.6mb
                 pP    41 30.90  13km
KLB     87.50 136 eP    41 25.60  -0.8
APH     88.00 331 eP    41 29.80   0.9
NWAO    88.27 137 eP    41 29.00  -1.1
LHC     88.36 342 ePc   41 30.30  -0.2
        1.1s   228.00nm          6.4mb
PHC     88.84   7 eP    41 33.50   0.8
        1.0s   340.00nm          6.6mb
WRA     89.10 117 Pd    41 38.30   4.0X
        1.1s   217.60nm          6.3mb
WB2     89.11 117 iPc   41 33.90  -0.5
                 eS    43 54.70
                 iPcP  45 19.80
LAT     89.43  99 eP    41 31.00  -5.0X
SES     89.51 356 iPc   41 36.10   0.1
        0.7s   674.00nm          7.0mb
PAF     89.51 176 eP    41 40.00   4.5X
KVG     89.69  94 eP    41 37.50   0.2
PAL     90.20 329 eP    41 40.00   0.7
PNT     90.69   2 eP    41 42.00   0.6
        1.0s   408.00nm          6.7mb
                 pP    42 05.00  84kmX
ELF     90.94 335 P     41 43.00   0.3
LDN     91.03 335 P     41 23.00 -20.1X
RXF     91.17 359 iPc   41 44.00   0.2
YKM     91.18 359 iP    41 44.40   0.5
PGC     91.19   5 eP    41 44.50   0.8
DLA     91.32 335 P     41 43.00  -1.4
PMG     91.33 101 eP+   41 44.00  -0.8
ASPA    91.37 120 iPc   41 45.00   0.2
LDM     91.58 359 iPc   41 46.10   0.5
RAB     91.78  94 eP    41 46.00  -0.9
NEW     91.78   0 iPc   41 47.50   1.0
      Z  22s    50.00um          6.9Msz
                 pP    41 51.00  11km
LHD     91.78 359 iP    41 46.80   0.2
CLX     91.82 359 iPc   41 47.80   0.9
AAM     92.48 336 ePc   41 49.90   0.1
UTO     93.04 336 iPd   41 47.50  -4.9X
ISO     93.21 114 eP    41 53.00  -0.3
BUT     93.95 357 eP    41 58.40   1.6
LRM     94.14 357 iPc   41 58.50   0.8
ALOA    94.32 100 eP    41 59.00   0.5
RSSD    95.16 351 iPc   42 03.20   0.8
        1.3s   556.45nm          6.8mb
                 pP    42 07.30  13km
COR     95.24   5 iPd   42 05.00   2.5
BLA     95.97 332 eP+   42 07.50   1.5
      Z  22s   101.48um          7.3Msz
BDW     97.02 355 iPc   42 11.30   0.4
        1.1s   116.94nm          6.4mb
                 pP    42 16.70  17km
CTA     97.55 110 iPd   42 14.90   1.8
        1.2s    50.78nm          6.0mb
                 i     45 07.00
                 i(PP) 46 10.00
                 iS    52 50.00
                 i     54 58.00
FVM     98.43 339 eP    42 16.80  -0.3
        1.0s    80.00nm          6.3mb
                 pP    42 22.00  16km
RSCP    99.20 335 e(P)  42 20.90   0.3
        0.7s    27.14nm          6.0mb
WDC     99.28   5 eP    42 21.00   0.1
                 ePP   47 24.00
BMN     99.61   0 iP    42 24.10   1.5
        1.3s   154.08nm          6.4mb
                 pP    42 30.20  19km
GLD     99.61 351 eP    42 23.20   0.5
        1.5s   428.13nm          6.8mb
GOL     99.68 351 eP    42 23.00  -0.1
        1.2s   117.21nm          6.3mb
      Z  19s    41.98um          7.0Msz
DUG     99.77 357 eP    42 24.50   1.2
HNR    101.04  93 ePdiff42 28.00  -1.1
                 ePP   46 40.00
                 eSKS  53 08.00
RLO    101.31 342 ePdiff42 29.60  -0.3
MNA    101.59   1 ePdiff42 32.40   1.1
GBO    101.65 342 e(Pdif42 28.50  -2.9X
ACO    101.67 346 e(Pdif42 31.70   0.2
TUL    101.73 343 ePdiff42 32.30   0.6
        1.1s   240.70nm          6.7mb
      Z  20s    57.20um          7.1Msz
STK    101.91 122 ePdiff42 34.00   1.4
BKS    101.99   5 iPdiff42 41.50   8.7X
        1.0s   109.00nm          6.4mb
      Z  20s    15.00um          6.5Msz
      N  20s    37.00um
      E  20s    48.00um
                 ePPS  56 00.00
                 eSS   01 20.00
JAS    102.01   3 ePdiff42 33.80   0.8
                 ePKKP 59 05.00
                 eP'P' 07 00.00
ADE    102.07 126 ePdiff42 35.00   1.7
        1.0s    40.00nm          6.0mb
RMU    102.78 355 ePdiff42 37.90   1.3
BHO    102.98 342 e(Pdif42 36.00  -1.3
        1.6s   243.60nm          6.7mb
CLC    104.21   1 ePdiff42 49.00   6.1X
ISA    104.35   2 ePdiff42 50.00   6.5X
ALO    104.50 351 ePdiff42 45.00   0.6
      Z  19s    53.82um          7.1Msz
GSC    104.73   0 ePdiff42 46.00   0.8
FDF    104.83 304 ePdiff42 47.50   1.5
SJG    105.26 310 e(Pdif42 48.00   0.1
      Z  20s    37.59um          6.9Msz
SBB    105.33   1 ePdiff42 51.00   3.1X
SYP    105.44   3 ePdiff43 02.00  13.5X
MWC    105.79   1 ePdiff42 54.00   3.9X
PAS    105.87   1 ePdiff43 06.00  15.8X
PAS    105.87   1 ePKP  47 16.00  13.2X
                 e     49 00.00
PLM    106.67   0 ePdiff42 58.00   4.0X
BRS    106.75 112 iPdiff42 58.50   4.2X
                 eS    53 34.00
SOB1   106.76 272 ePdiff43 11.70  17.1X
GLA    106.95 358 ePdiff43 03.00   7.9X
BAR    107.34   0 ePdiff43 05.00   8.2X
ATX    107.58 343 (Pdiff43 00.00   2.1X
MAW    107.62 180 ePKP  47 10.00   5.0X
CAN    108.88 120 ePKP  47 11.00   2.5
SYO    110.46 189 ePKP  47 10.40   0.0
CAR    111.67 306 e(Pdif43 18.00   1.4
TAU    112.23 128 ePdiff43 21.00   2.7X
                 e     57 29.00
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                 e      58 49.00
NOU   113.81 100 iPKPc 47 19.50    1.3
TOV   113.98 308 ePKP  47 20.00    1.1
LGN   114.57 310 e(PKP)47 17.00   -2.9X
SDV   115.19 308 ePKP  47 02.20  -19.1X
UAV   115.72 308 ePKP  47 23.00    0.6
BAO   116.15 271 e(PKP)47 24.00    1.0
RDJ   116.78 262 ePdiff43 42.00    3.0X
NVL   116.79 197 ePKP  47 24.00    1.5
       1.8s   300.00nm
     Z  18s    20.00um          6.8Msz
     N  18s    13.00um
     E  18s    13.00um
                 ePP    48 35.00
                 ePPP   51 03.00
                 eSKS   54 07.00
                 eSP    58 10.00
BMA   117.37 263 e(PKP)47 27.00    1.9
IIC   118.05 341 PKP   47 31.50    4.7X
IIP   118.37 341 ePKP  47 31.00    3.6X
IIT   118.52 340 PKP   47 32.60    5.0X
OXM   118.60 342 PKP   47 28.00    0.1
TPM   118.75 341 PKP   47 29.00    1.1
CSN   118.92 334 PKP   47 29.00    0.9
CR6   118.97 334 PKP   47 29.60    1.2
CR5   119.07 334 PKP   47 29.00    0.4
CZC   119.13 334 PKP   47 30.00    1.5
COM   119.25 333 ePKP  47 30.00    1.0
III   119.44 341 PKP   47 30.00    0.7
VAO   119.68 264 ePKP  47 31.10    1.6
                 e      47 34.20
                 e      47 36.30
                 e      48 55.80
FUO   119.76 309 ePKP  47 31.00    0.8
VHO   119.80 338 PKP   47 34.00    4.0X
UPA   120.15 316 i(PKP)47 32.00    1.5
       1.0s    40.00nm
     Z  20s    12.41um          6.5Msz
                 i      48 40.00
BOG   120.63 308 iPKP  47 32.00    0.1
                 iPP    48 59.00
BOG   120.63 308 ePdiff44 00.00    3.3X
CRZ   124.89 108 ePKP  47 45.00    6.0X
PSO   125.30 309 iPKP  47 47.50    6.5X
AFI   125.33  78 PKP   47 43.00    2.5
                 e(S)   49 28.00
                 e      51 00.00
SPA   130.15 180 ePKP  47 39.10   -9.2X
       1.0s     4.00nm
     Z  20s    27.48um          6.9Msz
                 e      50 00.00
GNZ   130.60 110 PKP   47 48.60   -1.3
SBA   131.89 164 ePKP  47 50.50   -0.7
                 S      02 04.40
LPB   131.89 285 PKP   47 54.00    0.5
LPB   131.89 285 Pdiff 44 46.00   -0.9
YJA   133.35 277 ePKPd 47 46.60   -9.6X
HJA   133.87 276 ePKPc 47 46.00  -10.5X
LPA   133.92 257 ePKP+ 47 58.00    1.7
     Z  20s    36.88um          7.1Msz
HUA   134.04 296 iPKPc 47 58.70    1.1
                 iS     51 31.00
SLA   134.77 274 e(PKP)47 46.00  -12.4X
                 e      50 31.50
NNA   135.05 298 ePKP  47 50.60   -8.5X
       0.6s   106.67nm
                 e      50 56.00
TCA   137.38 265 e(PKP)47 50.00  -13.1X
VBA   138.14 255 e(PKP)47 53.00  -11.3X
CFA   140.29 267 ePKPd 48 02.10   -6.3X
RTLL  140.34 268 ePKP  48 01.00   -7.5X
RTCV  140.63 267 ePKPd 48 00.80   -8.2X
RTCB  140.66 268 ePKP  48 01.70   -7.4X
TLL   141.59 271 ePKP  48 03.00   -8.0X
RFA   141.78 263 ePKPd 48 03.80   -7.2X
JACH  142.55 267 iPKP  48 07.50   -4.9X
BACH  142.75 266 iPKP  48 08.30   -4.4X
PEL   142.82 266 iPKPc 48 07.00   -5.8X
                 i      48 10.60
PCH   142.88 265 ePKP  48 07.50   -5.4X
SAN   142.93 266 ePKP  48 10.00   -2.9X
ROCH  142.99 267 ePKP  48 07.50   -5.8X
RUV   143.34  56 ePKP  48 14.00    0.0
       0.8s    70.00nm
PPN   143.72  61 ePKP  48 14.00   -0.6
       0.8s   110.00nm
CON   146.00 262 iPKP  48 16.50   -1.5
TMU   146.26 258 iPKPd 48 19.70    1.4
TBI   147.62  68 iPKP  48 25.40    4.5X
       1.0s   960.00nm
RKT   156.89  48 ePKP  48 41.00    6.7X
       1.2s    50.00nm
     S.D. = 1.0  on 486 of 575 obs.

   MAR  24, 1984  09h 43m 59.38± 0.30s
   44.197 N ± 1.4km  148.164 E ± 1.4km
   DEPTH =  17.6 ±  2.1 km
   6.3mb (100 obs.)  7.1Msz ( 28 obs.)
 KURIL ISLANDS                     (221)
      Felt (V) at Yuzhno-Kurilsk and
      (IV) on Shikotan. Felt (II JMA)
      at Nemuro, Obihiro and Urakawa,
      Hokkaido and at Hachinohe and
      Miyako, Honshu. Fourteen cm.
      tsunami at Nemuro, Hokkaido.
      Possible multiple event.

SHO     1.04 252 iPnd  44 19.50    1.0
                 iSn    44 34.00
KUR     1.06 349 iPnc  44 22.70    3.9X
       0.3s  9880.00nm
                 iSn    44 28.50
YUK     1.70 265 iPnd  44 29.60    1.2
       2.0s   183.00nm
                 eSn    44 52.10
NEM     2.06 246 P     44 33.40   -0.2
                 eS     45 01.00
KUSJ    2.74 248 P     44 41.90   -1.4
ABJ     2.80 268 P     44 46.80    2.7
                 eS     45 26.00
                 e      46 10.10
KUS     3.00 247 P     44 47.80    0.9
                 e      45 34.00
OBI     3.81 252 eP    45 01.00    2.5
                 eS     45 52.00
ASAJ    3.97 271 P     45 04.70    3.9X
HOOJ    4.00 245 P     45 02.50    1.5
ASA     4.20 266 P     45 09.20    5.2X
                 S      46 07.50
URA     4.43 244 P     45 09.70    2.4
                 iS     46 06.90
RMJ     4.71 269 P     45 17.60    6.3X
                 iS     46 16.90
YSS     4.75 308 iPnd  45 14.30    2.5
       0.5s   560.00nm
     Z  14s  2680.00um
     N  13s  1917.00um
     E  13s  1729.00um
WAK     4.78 287 P     45 18.50    6.3X
SAP     5.09 259 P     45 21.60    5.0X
                 S      46 23.50
MRRJ    5.47 254 P     45 23.50    1.5
HAK     5.93 249 P     45 29.40    1.0
                 eS     46 44.00
SUT     5.93 259 P     45 33.20    4.7X
                 e      46 47.10
HAC     6.13 236 P     45 30.20   -1.1
                 iS     46 47.80
                 i      47 08.10
AOM     6.41 241 P     45 35.40    0.1
                 eS     46 46.00
UGL     6.43 322 iPnd  45 39.50    3.9X
MIY     6.48 228 P     45 33.10   -3.2X
                 S      46 53.10
AOMJ    6.82 240 P     45 40.50   -0.5
MRK     6.88 232 P     45 39.60   -2.3X
                 S      47 06.00
OFU     7.04 225 P     45 41.10   -3.0X
                 S      47 07.90
OFUJ    7.06 226 iP    45 40.60   -3.7X
                 eS     47 09.00
AKI     7.49 236 P     45 52.20    1.8
                 S      47 22.80
HJH     7.69 234 P     45 51.10   -2.1X
ISN     7.74 224 P     45 49.70   -4.1X
                 S      47 24.20
SEN     8.07 225 eP    45 53.00   -5.5X
                 S      47 33.80
SKH     8.13 232 P     45 58.20   -1.2
YAM     8.36 227 P     45 59.10   -3.4X
SKR     8.41  37 iPn   46 04.70    1.4
       0.5s   390.00nm          6.9mb
     Z  17s  2058.00um          6.6Msz
                 iSn    47 48.00
YAMJ    8.59 228 P     46 02.20   -3.5X
FKS     8.67 225 eP    46 05.00   -1.8
                 eS     47 48.00
ONA     9.10 220 (P)   46 10.00   -2.8X
                 e      47 54.00
SHR     9.29 223 eP    46 11.00   -4.4X
NII     9.31 231 eP    46 16.00    0.3
                 eS     48 08.00
AIK     9.70 234 P     46 19.16   -1.9X
                 eS     48 12.00
MIT     9.77 220 P     46 19.00   -3.0X
                 eS     48 03.00
NIIJ    9.83 228 P     46 19.60   -3.2X
UTS     9.92 222 P     46 21.30   -2.7X
                 eS     48 09.00
OKH     9.97 342 iPnc  46 25.00    0.3
       0.5s   340.00nm          7.0mb
KAKJ   10.05 220 P     46 21.00   -4.8X
                 eS     48 06.00
TSK    10.07 220 eP    46 20.50   -5.7X
CHO    10.15 216 eP    46 23.00   -4.2X
                 eS     48 16.00
NKL    10.20 334 ePn   46 30.30    2.5X
       1.3s  2900.00nm          7.5mb X
TKD    10.33 230 eP    46 30.00    0.3
                 iS     48 30.50
MAE    10.43 225 P     46 28.80   -2.3X
                 eS     48 30.00
KMG    10.47 223 eP    46 30.00   -1.6
                 eS     48 31.00
TOK    10.67 220 eP    46 34.00   -0.3
                 eS     48 37.00
DDR    10.68 223 eP    46 28.30   -6.3X
NGN    10.69 229 eP    46 33.00   -1.6
                 e      49 21.90
CHJJ   10.74 224 P     46 30.80   -4.5X
                 eS     48 28.00
MAT    10.77 228 iP    46 32.70   -3.1X
                 S      48 40.00
KYS    10.90 217 eP    46 28.30   -9.2X
WAJ    10.91 235 P     46 36.70   -0.9
                 S      48 49.20
YOK    10.92 220 P     46 46.00    8.3X
                 eS     48 45.00
SRY    10.96 221 eP    46 33.10   -5.2X
MTMJ   10.96 230 P     46 35.40   -3.0X
OYM    11.12 221 eP    46 36.30   -4.3X
TAT    11.20 218 eP    46 51.00    9.4X
                 e      48 53.00
TOY    11.20 232 eP    46 40.00   -1.6
PET    11.22  34 iPnd  46 42.00    0.3
       0.7s    40.00nm          5.8mb
     Z  18s   670.00um
                 eSn    48 54.00
KOF    11.26 224 eP    46 39.00   -3.4X
                 eS     48 42.00
AJI    11.50 220 eP    46 42.00   -3.7X
                 eS     48 45.00
MIS    11.52 221 eP    46 50.00    4.0X
TKY    11.58 230 eP    46 45.00   -1.8
KTJ    11.59 220 P     46 42.50   -4.3X
                 eS     48 48.00
OSH    11.60 219 eP    46 44.50   -2.6X
KAN    11.63 233 P     46 47.00   -0.5
IIDJ   11.73 226 P     46 45.80   -3.1X
IID    11.75 226 eP    46 48.00   -1.1
                 S      49 03.70
SHZ    11.89 223 eP    46 50.00   -0.9
FUK    12.22 232 eP    46 55.50    0.1
GIF    12.40 229 ePc   46 55.00   -2.8X
                 eS     49 36.00
HMM    12.43 224 eP    47 07.00    8.7X
                 e      49 37.00
NAG    12.47 227 eP    46 56.00   -2.7X
                 eS     49 38.00
TK04   12.62 223 eP    47 02.00    1.4
TSRJ   12.73 231 eP    47 00.00   -2.2X
TK03   12.75 222 P     47 00.40   -2.0X
HIK    12.78 230 eP    47 03.00    0.2
                 eS     49 30.00
HJJ    12.86 213 eP    47 06.00    2.1
TK02   13.03 222 eP    47 04.00   -2.0X
TSU    13.06 227 eP    47 14.00    7.4X
MZH    13.17 233 eP    47 07.00   -1.0
KYO    13.25 230 eP    47 07.00   -2.1X
                 eS     49 46.00
TK01   13.26 222 eP    47 06.00   -2.9X
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24d 09h

MDJ	13.29	278	iPc	47 10.00	0.4
			iS	49 43.00	
TYK	13.40	234	eP	47 09.00	-2.0X
			eS	49 58.00	
NAR	13.44	229	eP	47 10.00	-1.6
OSK	13.59	229	eP	47 10.00	-3.6X
			eS	49 49.00	
OSA	13.62	230	eP	47 11.00	-2.9X
			eS	49 51.00	
OWA	13.72	227	eP	47 14.00	-1.3
			e	50 24.00	
TOTJ	13.76	235	P	47 14.80	-1.0
TOT	13.79	236	eP	47 15.00	-1.2
			eS	49 53.00	
KOB	13.80	231	eP	47 16.00	-0.3
			e	50 16.00	
SAI	13.85	240	eP	47 11.00	-6.0X
			S	49 52.40	
WKYJ	13.92	229	P	47 15.10	-2.9X
HIM	13.96	233	eP	47 18.00	-0.5
			eS	50 09.00	
WKY	14.15	230	eP	47 19.00	-1.9X
SUM	14.21	231	eP	47 17.70	-4.0X
SHJ	14.42	226	P	47 34.50	9.9X
			eS	50 35.00	
YONJ	14.44	236	P	47 23.60	-1.2
MTS	14.50	238	eP	47 24.00	-1.5
			eS	50 10.00	
OKA	14.52	234	ePc	47 24.00	-1.8
			eS	50 39.00	
TKS	14.59	231	eP	47 25.00	-1.8
			(S)	50 14.00	
TKM	14.70	233	eP	47 26.00	-2.2X
			eS	50 09.00	
TKSJ	14.95	232	P	47 28.40	-3.0X
SHK	15.36	236	ePd	47 35.00	-1.8
MRT	15.42	230	eP	47 46.00	8.4X
			eS	50 47.00	
HMD	15.48	239	eP	47 39.00	0.7
			S	50 45.00	
KOC	15.55	232	eP	47 38.00	-1.3
			eS	50 57.00	
HIR	15.62	236	eP	47 39.00	-1.1
			eS	50 36.00	
MTY	15.78	234	eP	47 46.00	3.8X
			e	51 05.00	
MGD	16.01	5	ePc	47 45.00	0.0
	1.2s	690.00nm			5.7mb
	Z 17s	723.00um			6.2MszX
	N 18s	785.00um			
	E 15s	275.00um			
			iS	50 48.00	
CN2	16.35	277	iPc	47 47.00	-2.4
UWA	16.35	233	eP	47 48.00	-1.5
ASZ	16.47	231	eP	47 55.00	4.0X
			eS	50 59.00	
SHNJ	16.59	238	P	47 51.60	-0.9
SHN	16.80	238	ePc	47 55.00	-0.2
			eS	51 08.00	
OIT	16.89	235	eP	48 01.00	4.7X
			eS	51 19.00	
NOB	17.32	234	eP	48 01.00	-0.7
			eS	51 24.00	
FKK	17.40	238	P	48 02.60	-0.1
			eS	51 24.00	
ASJ	17.47	235	P	48 08.40	4.7X
			S	51 40.90	
IZU	17.67	242	eP	48 06.00	0.0
			eS	51 31.00	
SAG	17.67	238	eP	48 07.00	0.9
			eS	51 30.00	
KUM	17.73	236	eP	48 07.00	0.1
			eS	51 37.00	
CBI	17.74	198	eP	48 08.00	1.0
			S	51 34.80	
KUMJ	17.86	235	P	48 09.50	1.1
MYZ	17.96	233	eP	48 09.00	-0.7
			e	51 51.00	
SNY	18.12	271	iPc	48 10.50	-1.1
NGS	18.29	237	P	48 14.00	0.2
			eS	51 52.00	
KAG	18.71	234	eP	48 19.00	0.1
			eS	52 08.00	
KAGJ	18.81	232	P	48 21.90	1.8
SEY	18.90	6	ePc	48 19.70	-1.3
	1.0s	680.00nm			5.8mb
	Z 18s	1004.00um			6.5Msz
	N 17s	838.00um			
	E 17s	578.00um			
FKJ	18.95	239	eP	48 22.00	0.2
			eS	52 09.00	
TAJ	19.09	231	eP	48 23.00	-0.5
			eS	52 12.00	
SMY	19.12	54	P	48 28.80	5.1X
DL2	20.51	264	iPc	48 38.50	-0.5
NZJ	21.73	230	P	48 52.50	1.0
			S	52 54.30	
MVI	22.90	222	eP	49 05.00	1.9
			eS	53 20.00	
NGO	23.96	230	P	49 15.70	2.2
			S	53 33.60	
BJI	24.00	271	eP	49 14.00	0.2
	E 21s	680.00um			
			eS	53 34.00	
NAH	24.42	229	P	49 19.50	1.6
			S	53 48.00	
ADK	24.54	59	P	49 20.90	2.1
KMJ	24.81	231	P	49 22.00	0.3
			S	53 52.60	
TIA	24.90	262	Pc	49 22.50	0.0
			S	53 49.00	
SSE	24.92	247	Pc+	49 23.10	0.4
	Z 18s	671.00um			7.2Msz
	N 19s	968.30um			
			i	49 25.50	
			i	49 40.00	
			iS	54 05.00	
BOD	25.04	315	eP	49 21.90	-1.8
	0.9s	90.00nm			5.4mb
NJ2	25.91	252	iPc	49 32.00	0.0
MYK	26.88	231	eP	49 44.00	3.0X
			eS	54 18.00	
HHC	27.04	276	iPc	49 43.30	0.8
TIY	27.59	269	iPc	49 47.00	-0.5
ISI	27.86	233	eP	49 50.00	0.1
			e	55 05.00	
BTO	28.23	276	iPc	49 53.00	-0.3
ANP	28.78	238	iP+	49 59.00	0.7
			iS	55 02.00	
TIK	29.06	348	ePc	49 56.50	-3.8X
	Z 17s	500.00um			7.2MszX
	N 17s	435.00um			
	E 18s	178.00um			
			epP	50 02.50	21kmX
			esP	50 12.00	
			ePPP	51 09.00	
			eS	54 45.00	
			esS	55 02.00	
NKI	29.36	57	P	50 05.50	2.3
ILT	29.43	25	iPd	50 01.50	-2.1
	2.2s	1800.00nm			6.5mb
	Z 18s	950.00um			7.5Msz
	N 18s	545.00um			
	E 18s	380.00um			
			iPPP	51 18.50	
			iS	54 51.00	
			isS	55 03.00	
			iSSS	56 53.00	
WHN	29.90	254	iPd	50 07.60	-0.6
IRK	29.91	301	iPc	50 06.00	-2.2
	1.4s	230.00nm			5.8mb
	Z 16s	226.00um			6.9MszX
	N 16s	539.00um			
	E 12s	460.00um			
			ePP	51 09.00	
			ePPP	51 20.00	
			eS	55 03.00	
			esS	55 18.00	
GUMO	30.63	186	e(P)	50 13.00	-1.8
GUA	30.68	186	e(P)	50 13.50	-1.7
			e(S)	54 57.00	
ZAK	30.69	298	eP	50 13.80	-1.1
	3.0s	1390.00nm			6.3mb
			ePP	51 14.00	
			eS	55 08.00	
QZH	30.77	241	iPc	50 16.00	0.1
			iS	55 13.00	
XAN	31.82	265	eP	50 23.80	-1.4
MOY	32.00	300	eP	50 25.30	-1.2
	1.2s	370.00nm			6.2mb
SDN	34.22	52	P	50 45.70	0.0
LZH	34.49	272	iPc+	50 48.00	-0.5
	7.0s	8506.00nm			6.8mb X
			pP	51 01.50	52kmX
			sP	51 13.00	
			S	56 23.50	
GZH	35.45	245	eP	50 55.50	-1.1
HKC	35.47	243	iP	50 59.00	2.3
GTA	35.94	280	P	51 01.30	0.5
MCO	35.99	244	eP	51 03.20	2.0
BAG	36.20	229	iPc+	51 02.00	-1.2
UER	36.28	301	iPc	51 03.00	-0.3
	1.2s	300.00nm			6.0mb
	Z 11s	82.00um			6.7MszX
	N 11s	59.00um			
	E 11s	68.00um			
TTA	36.62	39	P	51 06.00	-0.1
SVW	36.72	42	P	51 07.50	0.5
CD2	37.18	264	Pc	51 11.00	-0.2
LGP	37.34	222	eP	51 14.00	1.5
	1.5s	5.50nm			4.1mb X
MAN	37.39	227	iP	51 15.80	2.9
	1.0s	5.50nm			4.3mb X
QCP	37.41	227	iP	51 21.00	7.9X
GYA	37.74	256	Pc	51 15.80	-0.2
BRW	37.78	26	eP	51 14.30	-1.4
IMA	37.90	34	P	51 17.30	0.4
KDC	38.46	48	P	51 20.20	-1.3
NRI	39.03	331	iPc	51 22.90	-3.3X
	1.7s	80.00nm			5.1mb X
			esP	51 36.00	
			iPP	52 55.00	
			ePPP	53 20.00	
			eS	57 18.00	
PMR	39.84	42	eP	51 32.60	-0.3
COL	40.30	36	iP	51 37.80	1.0
			eS	57 48.00	
FBA	40.30	36	P	51 37.00	0.2
QIZ	40.62	244	iPc	51 41.00	1.1
			S	57 49.50	
ELT	40.63	306	iPc	51 37.80	-1.8
	1.4s	310.00nm			5.8mb
TOA	41.19	41	P	51 44.90	0.7
KMI	41.33	258	Pc	51 45.50	-0.4
	E 16s	222.90um			
			sP	51 59.00	
			S	57 45.00	
DAV	41.98	215	iPc+	51 49.00	-1.4
NVS	41.96	309	iPc	51 50.00	-0.4
	1.6s	120.00nm			5.4mb
			iS	58 16.00	
WMO	42.61	292	iPc	51 57.00	0.9
			S	58 12.00	
PPR	42.72	226	eP	52 04.00	6.9X
PCA	44.35	43	P	52 09.90	-0.1
SEM	45.01	303	ePc	52 14.10	-1.2
	6.7s	*******nm			7.0mb X
			isP	52 28.00	
			eSP	58 55.40	
			eScS	02 07.90	
INK	45.66	31	ePc	52 19.90	-0.3
	0.6s	396.00nm			6.5mb
MOM	46.04	181	eP	52 23.00	-0.7
KVG	46.62	176	eP	52 28.00	-0.3
KHE	46.76	347	iP	52 26.00	-2.8
	Z 19s	730.00um			7.7Msz
			iPP	54 20.00	
			iScS	02 20.00	
LSA	46.91	272	Pc	52 31.50	0.4
			S	59 23.50	
KKM	47.18	226	ePd	52 44.40	11.5X
	1.4s	253.50nm			
SIT	47.66	46	(P)	52 36.70	0.6
CHG	48.11	254	iPc+	52 39.60	-0.5
	0.7s	147.26nm			6.1mb
			eS	59 44.00	
MBC	48.16	19	eP	52 38.00	-1.8
	0.7s	104.00nm			6.0mb
WITU	48.68	178	eP	52 57.00	12.6X
BDT	49.14	253	iPc	52 50.00	2.0
	1.0s	144.20nm			6.0mb
MDG	49.27	183	eP	52 48.00	-0.9
PRZ	49.34	294	iPd	52 50.00	0.4
	1.4s	750.00nm			6.5mb
	Z 19s	1357.00um			8.0Msz
	E 19s	1407.00um			
			eS	59 56.00	
NST	49.47	250	iPc	52 52.00	1.4
TZZ	49.63	189	eP	52 49.00	-2.9X
TLG	49.65	295	iPc	52 54.00	2.2
	1.1s	1220.00nm			6.8mb

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     Z  16s   439.00um          7.6MszX
                iS     00 00.00
HON    49.69  99 P     53 02.00   9.8X
AAA    49.94 295 iPc   52 55.40   1.4
     Z  15s   486.00um          7.6MszX
     N  15s   720.00um
     E  15s   532.00um
                iS     00 04.00
BGA    50.51 171 eP    52 57.50  -1.1
LAT    50.62 181 eP    52 58.00  -1.3
PAA    50.70 171 e(P)  53 01.00   1.0
NRN    51.42 294 eP    53 05.10  -0.5
                eS     00 24.00
FRU    51.65 296 iP    53 07.80   0.8
       8.0s  *******nm          7.3mb X
     Z  15s   650.00um          7.8MszX
     N  15s   750.00um
     E  16s   658.00um
                iPcP   54 16.00
                iS     00 28.00
                iSS    03 59.00
KKN    52.22 274 eP    53 10.90  -0.8
PKI    52.25 274 eP    53 11.20  -0.9
       0.9s   710.00nm          6.6mb
KSH    52.40 292 iPc   53 13.00   0.1
DMN    52.45 274 eP    53 12.20  -1.3
LMG    52.85 180 eP    53 11.00  -5.3X
SVE    53.33 317 iPc   53 18.00  -1.3
       2.8s   900.00nm          6.2mb
     Z  16s  1017.00um          8.0MszX
     N  16s   304.00um
     E  16s   464.00um
                ePcP   54 28.00
                ePP    55 15.00
                eS     00 44.00
PMG    53.36 181 eP    53 20.00   0.2
                eS     00 50.00
ANR    54.14 295 iPc   53 25.40  -0.1
       1.2s  1200.00nm          6.8mb
     Z  15s   520.00um          7.7MszX
     N  15s   850.00um
     E  15s   500.00um
                isP    53 41.50
                iS     01 01.30
KBS    54.47 351 eP    53 29.90   2.4
PHC    54.49  51 eP    53 27.50  -0.4
       1.0s   221.00nm          6.1mb
ARU    54.52 317 iPc   53 26.70  -1.3
       2.8s  1800.00nm          6.6mb
     Z  16s   822.00um          7.9MszX
     N  16s   370.00um
     E  16s   653.00um
                ePP    55 26.00
                eSP    01 11.00
YKA    55.02  34 eP    53 31.00  -0.7
RSNT   55.04  34 eP    53 30.30  -1.4
       1.2s   275.86nm          6.2mb
                e      55 42.00
YKC    55.08  34 eP    53 31.00  -1.1
       0.6s   137.00nm          6.2mb
SNG    55.39 243 iPc+  53 35.00   0.1
       1.0s   420.00nm          6.4mb
     Z  22s    33.70um          6.4Msz
     N  22s    48.89um
     E  20s    81.56um
                eS     01 17.00
MKS    55.55 215 iPc   53 36.00   0.0
TAS    55.83 297 iPc   53 37.00  -0.9
       1.5s  2040.00nm          6.9mb
     E  15s   702.00um
                ePP    55 50.00
                eS     01 28.00
GAR    56.40 294 iP    53 41.00  -1.1
       2.5s  1020.00nm          6.4mb
                iS     01 30.50
KHO    56.41 292 iPc   53 41.40  -0.9
     Z  30s   370.00um          7.3MszX
     N  30s   299.00um
     E  30s   153.00um
                eS     01 31.00
                eScS   03 27.00
IPM    57.12 240 ePd   53 48.00   0.7
       1.9s   231.40nm          5.9mb
                e      53 58.30
KUL    57.37 293 ePc   53 48.50  -0.4
       8.0s  *******nm          7.2mb X
     N  17s   175.00um
     E  19s   350.00um
                iPcP   54 35.40
                iPP    55 50.50
                iPPP   57 22.30
NDI    57.45 280 iPc   53 47.80  -1.7
       0.6s   386.67nm          6.6mb
     Z  18s    40.21um          6.6Msz
     N  18s    38.49um
     E  18s    27.49um
                iS     01 44.50
DSH    57.65 294 iPc   53 50.00  -0.9
       6.5s  *******nm          7.4mb X
     Z  16s   825.00um          7.9MszX
                eS     01 50.00
KGM    57.73 236 ePc   53 51.50   0.0
PGC    57.76  52 eP    53 53.00   1.6
KLM    57.89 239 eP    54 04.20  11.6X
SAM    58.20 296 iPc   53 54.00  -0.7
       1.0s  3400.00nm          7.4mb X
     N  16s   560.00um
                iPP    56 05.00
                iPPP   57 27.00
                iS     01 53.30
APA    58.30 336 iPc   53 53.00  -2.0
       1.2s   160.00nm          6.0mb
     Z  19s   360.00um          7.5Msz
     N  19s   180.00um
     E  19s   279.00um
                iPcP   54 39.00
                iS     01 52.00
KUPT   58.50 209 e(P)  54 12.00  15.2X
KUG    58.52 209 eP    54 12.00  15.1X
KEV    58.55 340 iP+   53 55.00  -1.7
       0.8s    66.00nm          5.8mb
                i      54 09.30
                isP    54 58.20
                ePPP   57 40.00
                eS     02 00.00
GMW    58.73  52 eP    53 58.20  -0.1
                e      54 09.00
MTN    58.85 200 eP    53 56.00  -3.2X
DAG    59.03 357 iPc   53 59.50  -0.4
       0.8s    24.63nm          5.4mb
                i      54 56.00
                i      55 10.00
MED    59.39 242 e(P)  54 05.50   2.4
PNT    59.53  49 eP    54 02.00  -1.8
SHW    59.79  53 eP    54 07.60   1.8
COR    60.06  56 iPd   54 09.00   1.6
SOD    60.33 338 iP    54 06.30  -2.7
                i      54 09.00
                i      54 16.00
                e      23 51.00
DNP    60.49 218 eP    54 17.30   6.8X
TRO    60.56 342 eP    54 07.70  -2.8
EDM    60.58  43 ePc   54 09.10  -1.8
TRT    60.81 221 iPd   54 13.00   0.2
NEW    61.49  49 P     54 07.00 -10.2X
NEW    61.49  49 eP    54 16.00  -1.2
     Z  20s    90.00um          6.9Msz
                e      54 28.00
                e      55 51.00
FHC    61.79  59 e(P)  54 19.00  -0.4
YKM    61.90  48 iPc   54 20.30   0.2
PND    62.11  52 eP    54 22.30   0.9
RXF    62.21  48 iP    54 22.70   0.5
KNA    62.23 201 eP    54 20.00  -2.3
KJF    62.28 335 iP    54 20.60  -1.6
       0.9s   152.10nm          6.2mb
                i      54 32.40
                ePPP   58 32.00
                eS     02 32.00
                e      23 29.00
LHD    62.34  49 iPc   54 22.50  -0.5
LDM    62.35  48 iPc   54 23.50   0.5
CLX    62.60  48 iPc   54 24.50  -0.3
KSI    62.71 233 eP    54 21.80  -3.8X
                e      59 57.00
WDC    62.81  59 ePc   54 24.70  -1.4
                i      54 44.00
                i      54 53.00
                i      55 08.00
                eP'P'  23 34.00
RMT    63.12  60 eP    54 28.10   0.0
                i      54 39.10
HYB    63.52 269 ePc   54 29.00  -2.0
       0.8s   500.00nm          6.7mb
MIN    63.53  59 eP    54 29.00  -2.0
QUE    63.72 287 eP    54 32.00  -0.4
                eS     03 33.30
SUF    63.84 334 iP    54 30.00  -2.5
       0.5s   123.80nm          6.3mb
CTA    63.99 182 iPc+  54 31.30  -2.6
       0.9s    32.35nm          5.5mb
                iS     10 03.00
PVC    64.33 159 iPc   54 36.50   0.4
MOS    64.52 324 iPc   54 36.00  -1.0
       4.0s  5900.00nm          7.1mb X
     Z  15s   344.00um          7.7MszX
     N  15s   275.00um
     E  15s   264.00um
                ePP    56 56.00
                eS     03 12.00
                iSPP   03 40.00
PUL    64.59 330 ePc   54 36.00  -1.4
       8.0s  *******nm          7.1mb X
     Z  16s   350.00um          7.6MszX
     N  16s   220.00um
     E  16s   260.00um
                iPcP   55 04.00
                ePP    57 06.00
                ePPP   58 30.00
                eS     03 18.00
                ePS    03 37.00
                eSS    07 20.00
                eSSS   10 16.00
BKS    64.62  61 eP    54 39.20   1.3
       1.0s    87.00nm          5.9mb
                eS     03 18.00
ASH    64.70 299 eP    54 39.00   0.5
       3.0s  6020.00nm          7.2mb
                ePcP   55 07.00
                iS     03 22.50
                ePPS   03 50.00
                eScS   04 23.00
VAN    64.86 299 ePc   54 39.00  -0.5
FFC    64.90  37 ePc   54 38.20  -1.3
       0.8s    83.00nm          5.9mb
MHI    64.98 297 eP+   54 40.00  -0.4
                eS     03 22.00
WB2    65.07 194 iPc   54 37.80  -3.1X
                i      54 52.50
                i      55 04.70
                eS     03 34.80
WRA    65.07 194 Pd    54 37.60  -3.3X
       0.9s    35.30nm          5.5mb
ISO    65.07 189 eP    54 38.00  -2.9
KAT    65.24 301 iPc   54 44.00   2.1
       9.0s  *******nm          7.4mb X
                ePP    57 14.00
                eS     03 24.00
                eSP    03 37.00
                iSPP   03 55.00
FCC    65.27  31 ePc   54 40.30  -1.5
WCN    65.29  59 eP    54 42.30  -0.2
MHC    65.31  61 e(P)  54 41.00  -1.6
OBN    65.34 324 P     54 42.00  -0.2
OBN    65.34 324 iPc   54 49.00   6.8X
       1.2s   720.00nm          6.7mb
     Z  16s   540.00um          7.8MszX
     N  18s   360.00um
     E  16s   350.00um
                iPS    03 50.00
                iSSS   10 30.00
JAS    65.70  60 ePc   54 43.80  -1.1
                e      54 56.00
                i      55 06.00
                i      55 18.00
                eP'P'  23 20.00
GDH    65.74   8 iPd   54 43.90  -0.7
       1.5s   672.22nm          6.6mb
     Z  19s    46.18um          6.7Msz
                i      54 54.00
                i      59 44.00
                iS     03 35.00
NUR    65.97 333 iP    54 43.60  -2.6
       0.5s    56.10nm          6.0mb
     Z  16s   355.60um          7.7MszX
                iPcP   55 03.00
                ipP    55 30.50 200kmX
                ePP    57 32.00
                ePPP   59 00.00
                eS     03 40.00
                e      23 46.00
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KOU    66.11 163 iPc    54 47.90   0.4
BMN    66.13  56 eP     54 47.00  -0.8
       1.1s    97.40nm          5.9mb
                 i      54 58.50
POO    66.17 273 iPc    54 47.30  -0.9
PRI    66.67  62 e(P)   54 50.00  -1.3
FRI    66.75  61 e(P)   54 50.00  -1.6
MNA    66.81  59 eP     54 51.00  -1.2
GBA    66.85 267 Pc     54 50.40  -2.0
       1.1s   201.00nm          6.2mb
KHI    66.85 296 eP     54 52.30  -0.3
NDF    67.22 150 eP     55 08.20  13.6X
EUR    67.48  56 iP     54 55.00  -1.5
       0.2s    25.68nm          6.0mb
VUN    67.82 149 ePc    54 58.60   0.2
SVA    67.92 149 eP     55 10.30  11.3X
MAK    68.04 309 iPc    55 01.10   1.5
       7.0s   *******nm          7.1mb X
     Z  21s   245.00um          7.4Msz
     N  21s   402.00um
     E  18s   253.00um
                 ipP    55 10.30  30kmX
                 iPcP   55 25.80
                 iS     03 57.10
CWC    68.11  60 iPd    55 02.80   2.3
                 e      55 13.00
                 e      56 04.00
SYP    68.12  63 eP     55 03.00   2.5
NOU    68.27 162 iPd    55 03.00   1.9
                 iS     04 04.00
WKTM   68.29  61 eP     55 01.30  -0.2
BAK    68.32 306 iPd    55 06.00   4.6X
       6.0s   *******nm          7.3mb X
                 esP    55 18.00
ISA    68.35  61 eP     55 00.00  -1.8
                 e      03 56.00
AFI    68.37 138 eP     55 05.00   3.0
                 S      04 20.00
                 eSS    08 00.00
FRB    68.55  17 ePc    55 01.00  -1.4
UPP    68.67 336 iP     55 01.80  -1.4
       0.7s   100.00nm          6.1mb
                 i      55 04.60
                 i      55 13.40
                 iS     04 01.10
ASPA   68.78 194 iPc    55 02.50  -1.9
       0.8s    43.00nm          5.7mb
GRO    68.79 310 iPc    55 04.00  -0.3
       2.0s  1700.00nm          6.9mb
                 iS     04 07.00
CLC    68.81  60 eP     55 03.00  -1.6
DUG    68.89  54 eP     54 56.00  -9.2X
SHE    68.90 306 P      55 05.00   0.0
BDW    69.05  50 eP     54 51.60 -14.6X
SBB    69.38  61 eP     55 07.00  -1.2
NB2    69.45 339 P      55 06.80  -1.3
PAS    69.51  62 eP     55 08.00  -0.9
       1.5s   600.00nm          6.5mb
                 ePP    57 58.00
                 ePPP   00 02.00
                 eS     04 00.00
                 eSS    09 16.00
MWC    69.53  62 eP     55 10.00   0.7
                 e      04 14.00
HFS    69.56 338 iP     55 07.20  -1.5
       0.5s    88.00nm          6.2mb
GSC    69.63  60 eP     55 09.00  -0.7
                 e      55 20.00
                 e      55 33.00
PYA    69.76 312 ePd    55 09.50  -0.7
       3.0s  2500.00nm          6.8mb
                 isP    55 23.00
                 iSP    04 35.00
MNK    69.92 327 iPc    55 08.00  -3.0X
                 ePP    57 40.00
                 eS     04 14.00
AKU    69.94 354 iPc    55 11.90   1.0
       1.0s   448.00nm          6.6mb
     Z  18s   118.21um          7.2Msz
RVR    70.12  62 eP     55 11.00  -1.6
KRV    70.21 308 eP     55 12.00  -1.0
                 eS     04 17.00
MTA    70.37 309 iPc    55 14.00   0.0
     Z  20s    91.00um          7.0Msz
     N  20s   136.00um
     E  20s   136.00um
                 iS     04 26.00
TEH    70.43 301 eP     55 15.00   0.3
SLBC   70.83  62 eP     55 19.00   2.1
GRS    70.97 307 iPc    55 17.20  -0.7
       2.4s  1550.00nm          6.7mb
     Z  16s   210.00um          7.5MszX
     N  16s   158.00um
     E  16s   206.00um
                 iPcP   55 32.00
                 iS     04 31.00
                 iPS    05 05.00
KONO   71.06 339 iP     55 17.80   0.0
BKR    71.06 310 iPc    55 19.30   0.9
       1.2s  1500.00nm          7.0mb
                 ePcP   55 45.00
                 iS     04 30.60
RSSD   71.12  46 eP     55 18.30  -0.5
       1.1s    91.86nm          5.8mb
                 i      55 30.30
RSON   71.19  36 eP     55 16.60  -2.2
                 e      55 29.50
BRS    71.36 176 iPc    55 19.10  -0.9
                 e      55 32.00
                 i      55 44.00
                 i      56 20.00
                 e      57 55.00
                 e(S)   03 30.00
BAR    71.42  62 eP     55 19.00  -1.5
BER    71.44 342 eP     55 18.50  -1.6
LEN    71.53 309 iPc    55 22.00   0.8
       2.3s  2600.00nm          6.9mb
     Z  20s    52.00um          6.8Msz
     N  20s    68.00um
     E  20s    49.00um
                 iPcP   55 45.30
                 ePP    58 06.00
                 iS     04 43.00
ERE    71.56 308 iPc    55 21.50   0.2
                 iS     04 40.50
GCA    71.72  56 eP     55 23.00   0.6
                 e      55 37.00
REY    71.72 355 iPc    55 22.90   1.2
                 i      55 37.30
SOC    71.83 313 iPc    55 22.50  -0.2
       1.0s   150.00nm          6.0mb
                 epP    55 33.00  34kmX
TAB    71.93 306 iP+    55 25.00   1.3
RMU    72.03  56 eP     55 23.00  -1.3
                 i      55 36.00
ANN    72.15 316 iPd    55 24.00  -0.6
                 ipP    55 34.00  32kmX
                 iPP    58 09.00
GLA    72.34  61 eP     55 25.00  -1.0
WBN    72.73 200 iPd    55 28.00  -0.2
NAU    72.84 211 eP     55 29.00   0.2
GOL    73.46  51 eP     55 32.20  -0.6
       0.8s    20.83nm          5.2mb X
     Z  20s    60.00um          6.9Msz
                 i      55 45.50
GLD    73.51  50 eP     55 32.50  -0.4
       1.1s   183.22nm          6.0mb
     Z  20s    68.00um          6.9Msz
                 i      55 45.00
SIM    73.68 317 eP     55 34.00   0.4
       6.0s   *******nm          7.0mb X
     Z  17s   450.00um          7.8MszX
     N  17s   414.00um
     E  17s   215.00um
                 iPcP   55 44.00
COP    73.69 336 iPc    55 32.50  -0.9
       0.5s   154.93nm          6.3mb
                 iS     05 00.00
WAR    73.69 329 eP+    55 35.00   1.5
                 e      55 56.00
                 e      58 28.00
                 e      00 28.00
                 e      01 19.00
                 e      03 32.00
                 e      05 04.00
MUD    73.95 338 iPd    55 35.40   0.5
       1.1s   250.00nm          6.2mb
KER    73.97 302 eP     55 38.00   2.3
LVV    74.47 326 iPc    55 38.60   0.6
     Z  17s   385.00um          7.8MszX
     N  20s   511.00um
     E  20s   720.00um
                 iPP    58 28.00
                 iS     05 11.00
COO    74.49 177 eP     55 39.00   0.7
KIS    74.59 322 iPc    55 38.50  -0.3
       2.5s  2300.00nm          6.8mb
     Z  17s   776.00um          8.1MszX
     N  17s   475.00um
     E  17s   309.00um
                 iPP    58 24.00
                 iS     05 10.00
LHC    74.92  36 eP     55 39.50  -1.2
       0.9s   264.00nm          6.3mb
IAS    75.03 323 eP     55 43.00   1.7
CMS    75.35 182 eP     55 43.00  -0.2
KVT    75.52 314 iP     55 45.00   0.7
KRA    75.86 329 iPc    55 45.40  -0.6
       0.9s  1420.00nm          7.0mb
     Z  16s   181.50um          7.5MszX
                 i      55 47.70
                 i      55 57.50
                 i      56 17.70
                 iS     05 34.00
                 e      11 04.00
STK    75.95 186 eP     55 46.00  -0.6
UZH    76.10 326 iPd    55 47.50   0.1
     Z  17s   468.00um          7.9MszX
                 ePP    58 33.00
                 iS     05 30.00
ALQ    76.15  55 iPc+   55 47.00  -1.2
       1.0s    85.00nm          5.8mb
     Z  20s    74.47um          7.0Msz
                 e      56 00.00
BRN    76.24 334 eP     55 49.00   0.9
CFR    76.31 321 ePd    55 49.00   0.4
HAM    76.35 336 iPc    55 50.40   1.7
BHD    76.36 303 iPd    55 50.50   1.4
                 ePP    58 52.00
                 ePPP   00 40.00
                 eS     05 32.50
                 eSS    10 55.00
BMR    76.38 325 ePd    55 52.00   3.0X
VRI    76.42 322 eP     55 50.00   0.7
KSP    76.53 331 iPc    55 49.50  -0.3
       1.0s  1110.00nm          6.9mb
                 id     55 50.20
                 id     56 01.60
                 iS     05 33.20
CVO    76.70 322 iPd    55 52.00   1.1
CEI    76.79 326 eP     55 55.00   3.7X
TLB    76.82 321 iPc    55 52.00   0.5
JOS    76.90 327 ePc    55 52.00   0.1
       1.2s    10.00nm          4.8mb X
SCH    76.98  20 ePd    55 50.80  -1.5
       0.6s    54.00nm          5.8mb
MLR    77.05 322 iPd    55 53.00   0.0
ISR    77.06 322 iPd    55 54.00   1.1
CLL    77.25 333 iPc    55 52.90  -0.9
       1.7s  3000.00nm          7.1mb
                 i      56 19.00
                 eS     05 40.00
                 i      06 08.00
BRG    77.31 332 iPc+   55 53.30  -0.8
       2.6s  1250.00nm          6.5mb
                 i      56 06.60
                 P'P'   23 22.00
PSN    77.45 320 iPc    55 57.00   2.1
CMP    77.63 323 iPc    56 00.00   4.0X
RIV    77.70 177 eP     55 56.00  -0.2
KDE    77.71 316 eP     55 56.00  -0.5
WIT    77.85 337 eP     55 58.50   1.5
                 e      56 11.00
PRU    77.86 331 iPc    55 57.10   0.0
       2.0s   859.40nm          6.5mb
     Z  21s   523.80um          7.8Msz
                 i      56 10.00
                 S      05 48.00
EKA    77.90 344 Pc     55 58.00   0.7
       0.6s    70.90nm          5.9mb
BUC1   77.91 322 iPc    55 40.00 -17.5X
BUC1   77.91 322 iPc    55 57.00  -0.5
DEV    78.05 324 ePd    56 02.00   3.7X
YOU    78.10 180 eP     55 58.60   0.1
                 epP    56 12.20  47kmX
MOX    78.27 333 iP     55 59.00  -0.4
       1.6s  1574.00nm          6.8mb
     Z  18s   264.00um          7.6Msz
     N  18s   201.00um
     E  18s   142.00um
                 i      56 12.00
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		iS	05 52.00		
		iPS	06 35.00		
		iSS	11 30.00		
BUD	78.32	328	ePc	56 01.00	1.3
	1.8s	450.00nm			6.2mb
SRO	78.32	328	ePc	56 00.90	1.2
			e	56 10.10	
			eS	06 04.10	
DRA	78.43	323	ePd	56 02.00	1.6
ZST	78.45	329	eP	56 01.00	0.6
	Z 18s	442.20um			7.8Msz
			e	56 12.50	
			e	56 59.50	
HOF	78.47	333	eP	56 00.10	-0.5
WTS	78.54	337	eP	56 01.00	0.2
	1.0s	211.00nm			6.1mb
			e	56 13.00	
VKA	78.68	329	iPd	56 02.50	0.8
VKA	78.68	329	iPc	56 03.20	1.5
	9.0s	********nm			7.6mb X
	Z 20s	134.30um			7.3Msz
			i	56 12.60	
			i	59 22.70	
			iS	05 57.40	
DBN	78.90	338	eP+	56 03.00	0.2
	Z 23s	118.60um			7.2MszX
			e	59 26.00	
			eS	06 12.00	
KHC	78.92	332	iPc	56 03.10	0.1
	1.1s	318.00nm			6.3mb
	Z 18s	315.30um			7.7Msz
	N 17s	175.70um			
	E 17s	138.80um			
			e	56 16.60	
			e	57 48.60	
			S	06 10.00	
GPA	79.02	316	iP	56 03.80	0.0
ACO	79.03	49	eP	56 03.50	-0.3
	1.4s	1051.90nm			6.7mb
ISK	79.04	318	eP	56 03.60	-0.2
DMK	79.08	319	iPd	56 15.80	11.8X
JMB	79.13	320	iPc	56 05.00	0.8
CAN	79.15	179	eP	56 03.80	-0.4
			ipP	56 17.90	49kmX
WET	79.15	332	iPc	56 04.20	-0.1
			eS	06 13.00	
GRF	79.22	333	ePc	56 04.90	0.2
	1.1s	328.00nm			6.3mb
	Z 20s	110.00um			7.2Msz
			eS	06 03.20	
PVL	79.24	321	iPd	56 05.00	0.2
ADE	79.26	188	e(P)	56 06.50	1.6
BNS	79.35	336	iPc	56 04.70	-0.6
	1.2s	1240.00nm			6.8mb
BNS	79.35	336	iPc	56 06.00	0.7
			ePP	59 26.00	
			eS	06 29.00	
SSR	79.36	324	iP	56 05.00	-0.4
TNS	79.63	335	ePd	56 07.10	0.2
			e	02 24.00	
			eS	06 07.70	
KMR	79.64	331	iP+	56 07.20	0.3
ENN	79.89	337	eP	56 08.50	0.3
	1.0s	208.00nm			6.1mb
			e	56 20.00	
DIM	79.92	320	eP	56 09.00	0.5
DMU	79.98	345	iPd	56 08.80	0.2
	1.2s	650.00nm			6.5mb
DMU	79.98	345	iPc	56 21.00	12.4X
	1.1s	1100.00nm			
WAM	80.02	179	eP	56 07.80	-1.0
			epP	56 18.20	33kmX
EDC	80.18	318	iPd	56 09.90	0.0
PLD	80.27	321	eP	56 11.00	0.6
UCC	80.30	338	Pc	56 11.00	0.7
			e	06 38.00	
KDZ	80.35	320	iPc	56 11.00	0.2
DDK	80.36	345	iPd	56 10.80	0.2
	1.1s	430.00nm			6.4mb
DDK	80.36	345	iPc	56 22.90	12.3X
	1.2s	1120.00nm			
BHG	80.37	331	eP	56 11.10	0.3
DST	80.38	317	iPc	56 10.30	-0.8
DLE	80.50	345	iPd	56 11.70	0.3
	0.8s	470.00nm			6.6mb
DLE	80.50	345	iPc	56 22.40	11.0X
	1.0s	860.00nm			

FUR	80.53	332	iPc	56 11.70	0.0
	1.0s	951.00nm			6.8mb
	Z 16s	131.00um			7.4MszX
			eS	06 27.00	
VTS	80.55	322	iPc	56 22.00	10.2X
MOT	80.62	56	P	56 11.80	-1.0
RAR	80.64	132	P	56 24.00	11.5X
			S	06 28.00	
KBA	80.76	331	iPc	56 13.20	0.1
			i	56 15.60	
			i	56 20.50	
			i	56 30.20	
			i(PP)	59 25.30	
			iS	06 20.50	
CHI	80.77	39	P	56 13.00	0.0
OCO	80.80	49	eP	56 14.00	0.7
WLF	80.81	336	P+	56 15.00	1.9
			S	06 23.00	
DOU	80.87	337	Pc+	56 14.00	0.6
			SKS	06 28.00	
			S	06 50.00	
			PPS	09 03.00	
GWF	80.99	335	iPc	56 14.80	0.7
BCK	81.04	314	iPc	56 14.70	0.1
BUH	81.07	334	eP	56 14.40	-0.1
MMB	81.13	321	iPc	56 15.00	0.0
BFD	81.15	185	eP	56 25.00	10.2X
LJU	81.21	329	eP	56 14.50	-0.8
	1.2s	650.00nm			6.5mb
			eS	06 20.00	
MUN	81.23	207	eP	56 15.00	-0.4
SIO	81.26	48	e(P)	56 15.70	-0.1
EZN	81.32	319	iPc	56 16.40	9.5
HRI	81.41	308	eP	56 17.50	0.8
TUL	81.41	48	eP+	56 15.50	-1.0
	0.6s	177.40nm			6.3mb
	Z 19s	72.30um			7.1Msz
			e	56 28.70	
TOO	81.42	182	eP	56 17.00	0.7
CEY	81.51	329	e(P)	56 16.80	-0.1
			i	56 29.60	
CDF	81.59	335	eP	56 17.30	-0.1
RLO	81.63	47	eP	56 17.30	-0.3
OGA	81.74	332	iPc	56 18.50	0.2
NWAO	81.77	206	eP	56 18.00	-0.2
TRI	81.78	330	iPc	56 18.00	-0.2
			iPcP	56 26.00	
			epP	56 32.90	52kmX
			iPP	59 30.00	
			eS	06 26.60	
			esS	07 07.50	
			iSP	07 12.00	
			iSS	12 00.00	
			eSSS	15 49.00	
GBO	81.78	47	e(P)	56 17.90	-0.5
SLE	81.79	334	ePd	56 18.00	-0.3
ECH	81.80	335	iPd	56 18.80	0.4
SKO	81.83	323	iPc	56 18.90	0.3
			iPcP	56 30.00	
			i	57 37.00	
			iPP	59 35.00	
			iPPP	01 32.00	
			iS	06 31.50	
			iScS	06 58.00	
			iSSS	16 02.00	
FEL	81.84	334	iP	56 18.80	0.1
VAY	81.86	322	iP	56 18.70	0.0
ELL	81.93	314	iP	56 17.10	-2.3
SAX	81.97	333	ePd	56 19.50	-0.1
IZM	81.98	317	iP	56 20.00	0.5
ZUL	82.07	334	ePd	56 19.50	-0.3
AAM	82.19	36	ePc	56 20.80	0.4
			eS	06 30.80	
OSS	82.20	332	ePd	56 20.50	-0.1
HAU	82.24	335	eP	56 20.40	-0.2
	1.3s	183.30nm			6.0mb
CTI	82.24	331	iPd	56 20.20	-0.6
			e	06 28.00	
BSF	82.26	335	eP	56 20.50	-0.3
	1.6s	340.70nm			6.2mb
ROF	82.36	335	iP	56 21.40	0.1
BBS	82.36	334	iP	56 22.00	0.7
TTG	82.38	324	iPd	56 21.50	0.1
			e(S)	06 35.00	
ELF	82.4[illegible]	34	P	56 22.10	0.5
LLS	82.42	333	ePd	56 21.20	-0.6
VDM	82.44	338	eP+	56 24.50	2.9

VAL	82.44	347	iP	56 21.90	0.4
			iS	06 36.00	
YER	82.46	316	iPc	56 22.10	0.1
FVM	82.56	43	eP	56 22.10	-0.3
	1.0s	85.00nm			5.8mb
			i	56 35.00	
DLA	82.59	34	P	56 23.30	0.8
VDL	82.60	333	ePd	56 23.00	0.2
OTT	82.67	30	eP	56 22.00	-0.8
	0.9s	138.00nm			6.1mb
PMO	82.72	119	iP	56 37.20	13.7X
	1.3s	460.00nm			
			epP	56 52.00	51kmX
UTO	82.74	36	iPd	56 26.50	3.2X
OHR	82.81	323	iP	56 23.30	-0.5
			i	56 33.60	
			iS	06 37.30	
JER	82.82	308	iP	56 25.50	1.5
TPT	82.88	119	iP	56 38.00	13.7X
	1.3s	310.00nm			
			epP	56 54.00	56kmX
RKG	82.90	206	eP	56 26.50	2.5
SAL	83.01	332	eP	56 24.50	-0.1
			e	06 41.00	
BHO	83.07	48	eP	56 25.10	0.0
VAH	83.07	119	iP	56 38.90	13.7X
	1.3s	245.00nm			
TMA	83.13	333	ePd	56 24.50	-1.0
RUV	83.19	119	iP	56 39.70	13.9X
	1.3s	265.00nm			
			epP	56 55.00	53kmX
JCT	83.24	54	iP	56 25.30	-0.9
	1.2s	460.94nm			6.5mb
	Z 20s	113.48um			7.2Msz
			e	56 37.00	
MNT	83.30	28	iPc	56 26.00	-0.1
	1.0s	200.00nm			6.3mb
FLN	83.43	340	eP	56 26.80	0.1
MMK	83.47	333	ePd	56 27.00	-0.3
LDF	83.50	339	eP	56 27.10	0.0
POW	83.61	44	eP	56 27.50	-0.4
DIX	83.62	334	ePd	56 28.00	-0.1
LOR	83.63	336	eP	56 27.80	0.0
	1.0s	343.70nm			6.5mb
PTN	83.64	29	eP	56 27.40	-0.5
PPN	83.69	122	eP	56 42.00	13.6X
	1.3s	230.00nm			
			epP	56 57.00	52kmX
EMS	83.79	334	ePd	56 28.50	-0.4
RSNY	83.82	29	eP	56 28.80	0.0
	1.0s	45.00nm			5.6mb
			e	56 40.30	
GRC	83.83	337	iPd	56 30.00	1.2
ORO	83.85	333	eP	56 28.50	-0.6
			e	05 42.00	
LBF	83.86	336	eP	56 28.80	-0.2
GRR	83.87	340	eP	56 29.30	0.3
SSF	83.92	337	eP	56 29.20	-0.1
DHN	83.96	32	eP	56 28.80	-0.7
OLY	83.98	45	eP	56 29.00	-0.7
PRNI	84.00	307	eP	56 30.00	0.0
ATH	84.02	319	iPc	56 30.00	0.1
			ePP	00 09.20	
			eSKS	07 02.40	
			ePS	08 24.00	
			eSSS	16 36.00	
VG1	84.09	332	eP	56 30.50	0.4
			e	06 48.00	
SMF	84.20	336	iPc	56 30.90	0.2
AVF	84.21	337	eP	56 31.20	0.5
LPF	84.25	340	iPc	56 31.40	0.5
FIR	84.35	330	eP	56 33.00	1.6
			iS	06 42.00	
ALP	84.36	328	eP	56 31.00	-0.5
GRT	84.40	43	eP	56 32.30	0.4
			i	56 44.50	
APH	84.45	30	eP	56 31.00	-1.0
ATX	84.48	53	iP	56 33.00	0.6
HNME	84.51	24	eP	56 31.30	-0.9
BRT	84.53	325	eP	56 32.30	-0.1
LCI	84.67	324	eP	56 33.00	-0.1
AQU	84.79	328	eP	56 33.00	-0.8
			e	06 39.00	
MSLM	84.85	50	iP	56 34.00	-0.1
MZF	84.96	337	iPc	56 35.10	0.6
DUI	84.97	327	eP	56 35.50	0.9
			e	07 06.00	

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24d 69M

TCF	85.00	337	iPc	56	35.10	0.4
	1.6s	777.40nm			6.7mb	
MIM	85.01	25	eP	56	34.30	-0.4
			e	56	47.80	
MNS	85.03	329	eP	56	34.00	-0.8
			e	07	01.00	
LSF	85.22	337	eP	56	36.20	0.4
SGG	85.24	327	eP	56	36.40	0.3
MFF	85.34	339	eP	56	36.80	0.4
KRP	85.41	159	eP	56	40.00	3.4X
			(PcP)	56	56.00	
			(pP)	57	03.00	85kmX
RMP	85.52	328	iPc	56	38.00	0.6
			iPP	00	32.00	
			iSKS	07	20.00	
ORI	85.54	325	eP	56	38.50	1.1
RDP	85.56	328	eP	56	37.00	-0.6
			e	06	36.00	
SGO	85.57	326	e(P)	56	37.00	-0.6
RJF	86.09	337	eP	56	40.80	0.6
FRF	86.12	333	eP	56	40.20	-0.1
CVF	86.25	331	iPc	56	40.30	-0.7
	1.3s	140.00nm			6.0mb	
CAF	86.28	337	eP	56	42.20	1.0
CDR	86.30	334	ePc	56	41.30	0.1
			e	56	42.00	
			i	56	43.50	
			i	56	52.50	
			i	57	10.00	
			e	07	13.30	
LRG	86.30	333	iPc	56	41.50	0.3
LMR	86.36	333	iPc	56	41.60	0.1
HLW	86.44	309	iPc	56	44.00	1.9
			eS	07	17.00	
LFF	86.65	337	eP	56	43.80	0.9
TAU	86.72	181	eP	56	46.00	3.1
			e	57	10.00	
			e	07	06.00	
			e	07	20.00	
LPO	86.75	337	eP	56	44.20	0.8
STJ	86.78	14	eP	56	43.50	0.0
	1.0s	344.00nm			6.5mb	
RSCP	86.79	41	eP	56	43.20	-0.6
	1.0s	180.00nm			6.2mb	
			i	56	57.00	
PRIN	87.39	31	eP	56	46.70	0.1
NAV	87.55	37	eP	56	47.50	0.1
SLA	87.80	37	P	56	49.50	0.9
MNG	87.94	160	P	56	49.70	0.8
			(pP)	57	53.00	262kmX
			i	58	13.90	
GIB	88.29	325	e(P)	57	03.50	12.4X
MLS	88.37	336	eP	56	51.70	0.4
WEL	88.39	160	P	57	00.80	9.8X
N	22s	171.85um				
E	22s	57.78um				
			S	07	26.00	
EPF	88.51	337	iPc	56	52.20	0.2
	1.3s	86.60nm			5.9mb	
PRM	89.54	40	eP	56	56.90	-0.1
			e	57	10.30	
LGR	89.82	339	eP	56	55.00	-3.2X
			i	57	11.50	
			iPP	00	35.00	
			iS	07	41.00	
MSZ	90.21	166	eP	57	02.70	3.2X
EBR	90.51	336	eP	57	01.00	-0.3
IIC	91.52	60	P	57	08.20	1.5
OXM	91.60	61	P	57	08.50	1.4
TAC	91.83	61	iP	57	10.00	1.9
TPM	92.23	61	iP	57	12.00	2.2
III	92.42	62	eP	57	12.00	1.3
PTO	92.52	343	ePKP	57	09.50	-1.1
TOL	92.64	339	iP+	57	11.00	-0.2
			i	57	26.00	
			i	58	50.00	
			iPP	01	00.00	
			iSKS	08	02.00	
			iS	08	16.00	
			i(PS)	09	50.00	
			iSS	14	44.00	
			iSSS	18	35.00	
ARO	92.77	289	iP+	57	14.30	2.2
ALI	93.08	336	iP+	57	15.00	1.8
			iPP	01	05.00	
VHO	94.99	60	iP	57	26.00	3.4X
ALM	95.04	337	eP	57	37.90	15.6X
			eS	08	25.90	
CRT	95.04	338	eP	57	25.80	3.4X
SFS	96.42	339	ePc	57	30.00	1.5
			i	57	41.00	
			iPP	59	30.00	
			iSKS	08	40.00	
			iS	10	22.00	
			ePS	12	30.00	
			iSP	15	38.00	
			iSS	19	20.00	
			iSSS	26	10.00	
AAE	97.33	290	eP	57	36.00	2.6
TAM	105.07	325	iPdiff	58	09.00	1.4
AVY	110.32	263	ePKP	02	33.00	0.6
SJG	110.51	35	e(Pdif	58	10.00	-21.8X
Z	20s	42.55um			7.0Msz	
BNG	113.82	303	ePdiff	59	02.00	15.4X
LGN	115.18	44	ePKP	02	44.50	3.0X
PAF	115.30	225	ePdiff	59	05.00	12.7X
FDF	115.55	32	ePdiff	59	12.00	17.8X
SDV	116.57	44	ePKP	02	45.50	1.0
	0.9s	83.30nm				
CHN	117.24	51	ePKP	02	46.00	0.3
BOG	118.38	50	ePKP	03	04.00	15.9X
PSO	119.33	55	ePKP	02	55.00	5.0X
MTD	120.51	276	ePKP	02	52.00	0.3
			ipPKP	03	08.00	
			iPP	04	18.00	
GUV	121.03	37	ePKP	02	57.40	4.7X
KRI	121.95	278	ePKP	02	55.00	0.5
			ipPKP	03	10.00	
			iPP	04	30.00	
SBA	122.31	175	ePKP	02	54.50	1.2
			S	14	44.00	
KIC	124.06	327	ePKP	02	57.60	-1.0
			e	03	10.00	
			e	04	35.20	
			e	12	44.60	
BUL	124.83	275	ePKP	02	59.00	-1.0
			ipPKP	03	12.00	
			iPP	05	05.00	
MAW	128.25	209	ePKP	03	06.00	1.0
EVA	128.44	269	ePdiff	00	11.00	19.4X
SLR	128.55	270	e(Pdif	00	06.00	13.9X
NNA	129.86	64	ePKP	03	10.50	0.8
	0.5s	42.25nm				
			e	05	41.00	
BFS	130.32	270	ePKP	03	10.70	0.3
	1.0s	38.00nm				
SEK	130.55	268	iPKPd	03	11.50	0.7
	0.8s	33.58nm				
HUA	130.88	63	iPKPd	03	14.30	2.2
			iS	06	34.50	
SPA	134.00	180	ePKP	03	10.90	-5.3X
	1.0s	45.00nm				
Z	20s	17.21um			6.8Msz	
GRM	134.05	263	e(PKP)	03	28.00	10.8X
	0.7s	34.25nm				
Z	22s	19.07um			6.8Msz	
LPB	138.83	60	PKP	03	22.00	-5.1X
Z	23s	85.23um			7.4MszX	
			i	03	29.00	
ITR	144.24	11	ePKP	03	33.10	-3.1X
			e	03	34.80	
			e	03	38.60	
			e	03	39.80	
SOB1	144.27	15	ePKP	03	33.10	-3.1X
			e	03	34.40	
			e	03	35.40	
			e	03	48.40	
YJA	144.64	63	iPKPd	03	35.10	-2.1
HJA	145.45	64	ePKPc	03	38.20	0.3
NVL	145.88	204	ePKP	03	38.00	0.7
Z	21s	41.00um			7.2Msz	
N	21s	29.00um				
E	21s	18.00um				
TLL	146.27	79	iPKP	03	39.00	-0.5
SLA	146.45	66	iPKPd	03	41.00	1.2
VCA	147.24	74	ePKPc	03	41.00	0.0
ROCH	147.67	83	iPKP	03	42.30	0.7
JACH	147.82	82	iPKP	03	43.90	2.2
LNV	147.89	85	ePKP	03	44.00	2.4
PEL	148.00	83	iPKPc	03	44.60	2.7X
SAN	148.17	84	iPKP	03	45.00	2.8X
BACH	148.24	83	ePKP	03	48.00	5.7X
BAO	148.40	31	iPKPc	03	45.10	2.0
RTCB	148.44	79	ePKPc	03	44.30	1.6
RTLL	148.58	78	e(PKP)	03	44.80	1.9
CFA	148.90	79	ePKPd	03	43.00	-0.4
MDZ	149.17	81	e(PKP)	03	45.40	1.6
TMU	149.20	94	iPKPc	03	45.00	1.5
RFA	150.41	84	ePKPd	03	45.80	0.2
TCA	151.30	75	ePKPc	03	46.60	-0.5
VAO	155.47	35	ePKP	04	08.60	15.5X
BMA	156.27	29	ePKP	04	05.20	11.1X
RDJ	156.78	27	iPKP+	03	56.40	1.7
LPA	157.92	74	ePKP+	03	54.00	-1.7

S.D. = 1.1 on 518 of 658 obs.

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Explanation of Entries in This Table

Hypocentral coordinates are determined by a modified Geiger's method and may be constrained by reported first arriving P-waves, Pdiff, and the DF branch of PKP. Data are corrected for station elevation and for the ellipticity of the Earth. Outliers may be truncated (ie., removed from the calculation) either automatically or manually. The solution is allowed to converge between rounds of automatic truncation to insure a unique result. Convergence is aided by step length damping.

The formal standard errors of the computed hypocentral coordinates (Flinn, 1965) are based on the assumption of independent normally distributed random errors in the raw data, and tend to be underestimates. Care should be exercised in interpreting these numbers in terms of absolute location accuracy because of unmodeled biases. Analysis of events with independently known coordinates indicates that most PDE determinations are accurate to a few tenths of a degree in epicentral position and 25 km in depth. For special studies, we urge that inquiry be made to this office for possible recomputation of hypocenters of interest, using more complete instrumental data.

Restricted focal depths occur in four instances. If at any point in the computation the depth becomes negative, the solution is automatically restricted at 33 km and indicated by "NORMAL DEPTH". If the unrestricted depth computation is unsatisfactory, and in the judgment of the reviewing geophysicist the earthquake probably has a shallow focus, a solution may be held at 33 km. These are also indicated by "NORMAL DEPTH". The geophysicist may restrain the depth at any value indicated by evidence from available seismograms. These are indicated by, for example, "DEPTH = 100 KM (GEOPHYSICIST)". If two or more pP phases are identified, and in general, yield depths within 10 km of the mean, then the depth is automatically restricted to this value and denoted by, for example, "DEPTH = 51 KM (5 DEPTH PHASES)". pP phases may also appear as unidentified second arrivals with associated travel-time residuals. Hypocentral coordinates derived from other sources, such as the California Institute of Technology, the University of California at Berkeley, and ERDA are noted on the EDR.

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T)+Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66\log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20° \leq \Delta \leq 160°$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5°$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

The travel-time residual (observed − computed) is based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Phases not used in the computation are marked by an X. The azimuth from the epicenter to the station is measured clockwise from north. The epicentral distance is the central angle in degrees.

Hypocenter Symbols

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.

Note: On printers available to the NEIS for this publication, the symbol for degrees (°) appears as "`".

Table 4-216

References

Bolt, Bruce A. (1968), Estimation of PKP Travel Times, *Bull. Seis. Soc. Am.*, **58**, pp. 1305–1324.

Flinn, E. A. (1965), Confidence Regions and Error Determination for Seismic Event Locations, *Rev. Geophys.*, **3**, no. 1, pp. 157–185.

Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1–15.

Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.